EditShare ReadMe

Storage Version 6.2.1

Ark Version 2.2.1

Flow Version 2.2.1

October 8, 2012

This release contains many new features as well as numerous fixes for outstanding issues. Always check http://updates.editshare.com for the latest version of this ReadMe.

If you are already running a version of EditShare v6.x, see the following sections:

- Important Considerations Before You Upgrade
- New in Storage Version 6.2.1
- Fixed in Storage Version 6.2.1
- New in Flow Version 2.2.1
- Fixed in Flow Version 2.2.1
- New in Ark Version 2.2.1
- Fixed in Ark Version 2.2.1

If you are upgrading from a v5.5.22 or v5.5.23 system, see the following section:

- Upgrading from Version 5.5.22-23

Also see the following sections:

- Supported Client Versions
- Changes in Previous Versions

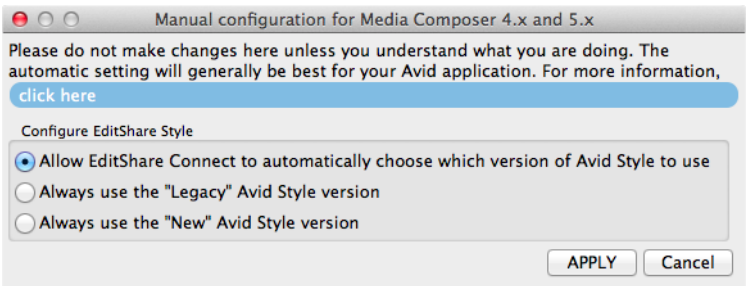
- Limitations
- Technical Support Information

NOTE: *If you purchased the EditShare Ark and/or Flow products, or if they were included with your EditShare server, the software update for the latest versions of Ark and/or Flow are included with this update.*

New in Storage Version 6.2.1

The following are new features in version 6.2.1 of EditShare Storage:

- **Avid Style Support for Avid Media Composer and Symphony 6.5.x for Windows.** This release includes a compatibility update for Media Composer and Symphony v6.5.x for Windows. All customers running these versions of Avid software should update both the EditShare server and all EditShare Connect clients to v6.2.1. Using earlier versions of EditShare server software and EditShare Connect will result in unreliable Avid Style behavior on Media Composer and Symphony v6.5.x.
- **Increased Avid Style Performance.** Performance of Avid Media Composer and Avid Symphony are now significantly increased when reading and writing to EditShare Avid Style spaces. The changes affect all 64-bit Avid versions for both Windows and OS X (6.0.x and 6.5.x), as well as 32-bit Media Composer versions 5 and 5.5 for OS X.
- **EditShare Connect automatically detects installed Avid software and optimizes Avid Style support accordingly for Avid Media Composer and Symphony 4-5.5.x on OS X.** Once Avid Style is enabled in EditShare Connect v6.2.1, it is unnecessary to make any further configuration choices. However, a “Config Avid Style” menu option allows users to override the automatic configuration and switch between “Legacy Avid Style” support and “New Avid Style”.


Manual configuration for Media Composer 4.x and 5.x
Please do not make changes here unless you understand what you are doing. The automatic setting will generally be best for your Avid application. For more information,
click here
Configure EditShare Style
Allow EditShare Connect to automatically choose which version of Avid Style to use
Always use the "Legacy" Avid Style version
Always use the "New" Avid Style version
APPLY
Cancel

Overriding the automatic configuration may be desirable in certain circumstances to enable specific workflows or features, such as exporting

AAFs to Avid Style spaces, or mounting Avid Style Spaces by AFP. Overrides will only affect Avid software between v4.x and v5.5.x.

Table 1: Differences between New and Legacy Avid Style

Avid Media Composer & ESC Avid Style Version	DAVE SMB support for Shared Projects	DAVE SMB support for Shared Media	AFP support for Shared Projects	AFP support for Shared Media	Support for AAF Exports*
Media Composer 2.8-3.5.x Legacy Avid Style**	✓	✓			
Media Composer 4.0.x Legacy Avid Style (default)	✓	✓	✓	✓	
Media Composer 4.0.x New Avid Style	✓	✓		✓	✓
Media Composer 5.0.x Legacy Avid Style	✓	✓	✓	✓	
Media Composer 5.0.x New Avid Style (default)	✓	✓		✓	✓
Media Composer 5.5.x Legacy Avid Style	✓	✓		✓	
Media Composer 5.5.x New Avid Style (default)	✓	✓	✓	✓	✓
Media Composer 6.x New Avid Style**	✓	✓	✓	✓	✓

* With the "Legacy" version of EditShare Avid Style, it was not possible to export an AAF from a sequence in a bin that was located in an EditShare Avid Style space. To export the AAF, you had to copy the bin to a local project and export from there. Similarly, if you were trying to export an AAF with embedded media, with the "Legacy" version of EditShare Avid Style, you had to first consolidate your media to a local drive or to an Avid MXF space, and export based on the consolidated media. Both of these issues were resolved with the "New" EditShare Avid Style for Mac.

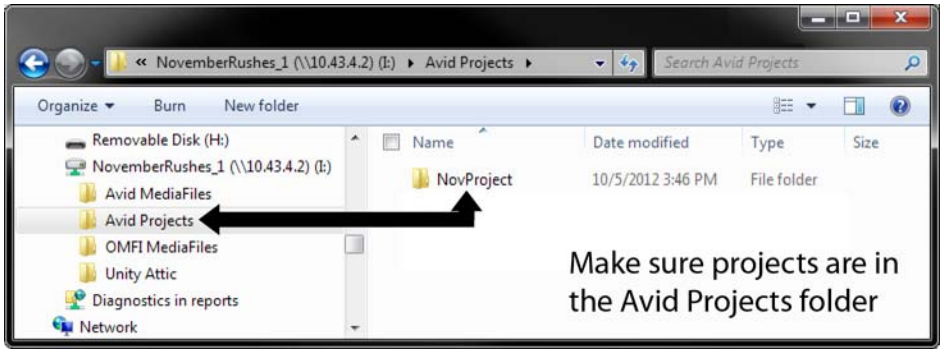
** "New" Avid Style is not compatible with Media Composer or Symphony v2.8-3.5.x, and "Legacy" Avid Style is not available for v6.x. Overriding the Avid Style settings will only affect v4.x-v5.5.x of Avid products; selecting "New" Avid Style for Avid v2.8-3.5.x or "Legacy" for v6.x will have no effect.

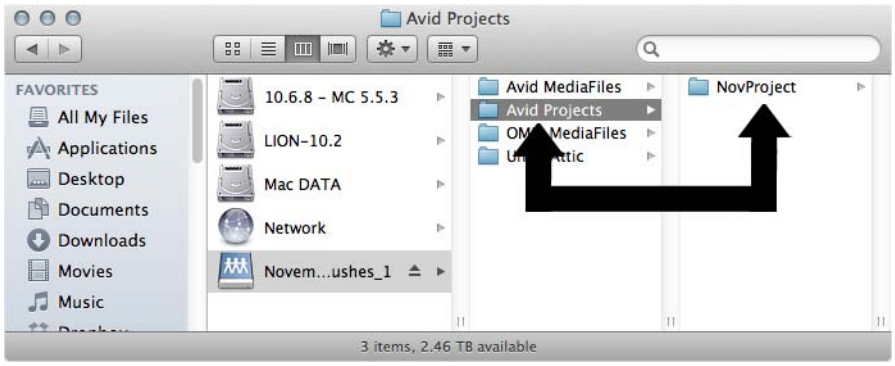
NOTE: *Once you begin using a space that is mounted by DAVE SMB, do not switch to AFP, and vice versa. Switching mount types may cause Avid to hang.*

- **Daily Backup now includes Avid Projects in Avid Style Spaces.** EditShare has long provided an automatic daily backup of all EditShare Project Spaces (FCP Shared Project Spaces, Avid Shared Project Spaces,

Lockable Project Spaces). These spaces are located on the mirrored OS drives and are automatically backed up to a designated RAID partition daily at 4 a.m., providing an incremental backup on a second set of drives. Now Avid Projects in Avid Style Spaces will also be included in the daily backup.

CAUTION: *You should put all of your Avid Style projects inside the "Avid Projects" directory. Because Avid Style spaces might also contain media files, to avoid accidentally backing up media, EditShare will only backup the contents of the "Avid Projects" directory inside your Avid Style spaces.*





Best Practices

Where should you create Avid Projects for maximum safety? Your system may have multiple physical RAID sets (groups of hard disk in a hardware RAID array), and each RAID set may have multiple partitions. If you have multiple physical sets of hard disks, wherever possible you should try to put your Avid Style projects on a different set of drives than the drives where the daily backup is stored. If you have only one physical set of hard disks but it is divided into two or more partitions, you should try to put your Avid Style projects on a different partition from the partition where the daily backup is stored.

If you follow this advice, you will have the greatest chance of preserving your data should something happen to the original project files.

- **Enhanced OS X Optimizer for EditShare Connect.** EditShare Connect now includes an enhanced optimizer for OS X. When launched, EditShare Connect confirms whether your system is optimized; if not, you will be prompted to enable the appropriate optimizations. In most cases, you will also need to supply the username and password of an OS X user on that machine who has Administrator privileges.

EditShare Optimizer
DAVE Optimizations
DAVE caching is currently enabled. We recommend you leave caching enabled unless you are using Edit While Capture.
Do you want to leave DAVE caching enabled?
Yes
No
DAVE aggressive file locking is currently enabled.
Do you want to disable aggressive file locking?
Yes
No
10 Gigabit Optimizations
Your system has a 10 Gigabit card but you have not enabled 10 Gigabit optimizations.
Enable 10 Gigabit optimizations now?
Yes
No
Myricom Optimizations
Your system has a Myricom card but you have not enabled Myricom optimizations.
Enable Myricom optimizations now?
Yes
No
Cancel
OK

Do you have the best version of DAVE installed? The optimizer checks to make sure you have at least DAVE v9.0.2 build 1450. If you have DAVE v7.x or v8.x, you can still use those versions, but you will not be able to utilize the DAVE optimizations below. If you are running OS X Snow Leopard (10.6.x) or later, it is best to upgrade to DAVE v9.0.2 build 1450 or DAVE v10.0.1 if possible, but upgrades from v7.x or v8.x are paid. For more information about acquiring the best version of DAVE for your version of OS X, see "Considerations for Using DAVE" on page 20.

If DAVE v9.0.2 build 1450 or newer is installed, is it optimized for video editing? There are two important settings:

– **DAVE caching:** You should leave caching enabled (the DAVE default) unless you are working with EditShare's Edit While Capture (EWC) files, in which case caching can cause the files that are currently being recorded to not update properly.

– **DAVE aggressive file locking:** Because aggressive file locking is often incompatible with sharing media files, EditShare recommends disabling aggressive file locking to avoid issues with applications such as Final Cut Pro and Premiere holding files locked such that

other users sometimes cannot even open the files read-only. (DAVE aggressively locks files by default.)

NOTE: *If you store Microsoft Office files on any SMB-mounted volumes (EditShare or non-EditShare) and if multiple users try to open the same Office files at the same time, you may need to leave aggressive locking enabled to prevent users from accidently overwriting Office documents. If you have any doubts, please contact EditShare Support.*

10-gigabit optimizations: If you have a 10-gigabit network card and drivers properly installed on your Mac, EditShare Connect will ask you to authorize it to optimize that adapter's performance. There are two categories of 10-gigabit optimizations:

- **General 10-gigabit optimizations:** No matter what kind of 10-gigabit card you have – Myricom, ATTO, Small Tree, Chelsio, etc. – EditShare Connect should detect that you have a 10-gigabit network interface card and ask you for permission to perform some basic optimization tasks. For example, to maximize the throughput of 10-gigabit Ethernet, it is necessary to set the size of various buffers beyond the OS X defaults. EditShare Connect can modify these settings for you.
- **Vendor-specific 10-gigabit optimizations:** Some vendors provide card-specific settings that can be tuned. EditShare Connect will tune these settings to get the best video editing experience. EditShare Connect supports optimizing Myricom cards; in future versions, we expect to include settings for other manufacturers.

- **Application Signing for OS X.** EditShare Connect for OS X is now signed to allow running on OS X Lion 10.7.5 and OS X Mountain Lion (10.8) without disabling Gatekeeper, the new OS X security feature.

Fixed in Storage Version 6.2.1

The following storage limitations have been fixed in version 6.2.1:

- **Logging now works in EditShare Connect for Windows.** For troubleshooting purposes, you may enable logging in EditShare Connect for Windows by running es_connect.exe with the -d flag. Suffixing a number up to 10 will increase the log's output.For example, running the command `es_connect.exe -d 10` will produce the most verbose log output.

On Windows 7, the editshare-connect.log file will be created in the user's AppData\Local\Editshare directory; on Windows XP, it will be created in the user's Local Settings\Application Data\EditShare directory.

- **Eliminate MySQL analyze warning.** Some customers may have received "mysql-analyze" warnings in the Daily Health Report and in email alerts. These are erroneous messages about a MySQL database analysis that should not be occurring. This has now been resolved and customers should no longer receive these warnings.
- **Resolve Occasional AFP Disconnections.** AFP mounted spaces may have occasionally disconnected when there was no network I/O activity for a long time. This has been resolved with an updated version of the Netatalk service on EditShare servers.
- **Exporting AAF and H.264 from Media Composer/Symphony 5 and 5.5 for OS X.** You may have previously received errors when exporting AAF and QuickTime H.264 files if your projects and media were located on EditShare Avid Style spaces. This has been resolved.
- **EditShare Connect no longer reports that Avid products are still running after they've been closed.** Prior to this EditShare release, if you quit Avid Media Composer or Symphony on OS X and then logged out of EditShare Connect, attempting to log in to EditShare Connect would result in a message that your Avid application was already running and that if you use Avid Style spaces, you can only launch your Avid application after logging into the EditShare server. This was caused by EditShare Connect detecting that the Avid Bin Indexer service was still running on the workstation. This has been resolved.
- **ESA Tool for Avid Style and Universal Media Spaces.** EditShare's Extreme Scalable Architecture (ESA) allows customers to join multiple EditShare servers into an ESA Group that acts like a single storage system from the client's point of view. Prior to this release, when creating an ESA Group, Avid Style and Universal Media Spaces were not handled properly. This has been resolved.

New in Flow Version 2.2.1

The following are new features in version 2.2.1 of Flow:

- **Naming Clips when restoring from Ark.** When restoring clips in an Ark Restore job, users can now specify new names for restored clips before running the restoration job.

- **Naming Clips when restoring Flow Sequences.** When converting a Flow Sequence into an Ark Restore job, if the clips or subclips in the sequence have been given new names, the names of the restored clips will follow the names from the sequence.
- **Application Signing for OS X.** Flow Browse, Flow Control, and Flow Logger clients are now signed to allow running on OS X Lion 10.7.5 and OS X Mountain Lion (10.8.x) without disabling Gatekeeper, the new OS X application security feature.

Fixed in Flow Version 2.2.1

The following Flow limitations have been fixed in version 2.2.1:

- Flow Control on OS X no longer crashes when clicking on a Media Space listed in the Proxy tab of Flow Control when that space is being scanned or when proxy files are being encoded.
- When dragging and dropping clips and sequences from Flow Browse, DVC Pro HD 720p QuickTime clips no longer appear in Final Cut Pro as SD clips with an SD raster. They now have the correct HD raster.
- The “match frame” feature in Avid Media Composer now matches to the correct clip and angle when working with sequences that were created in Flow Browse from Group Clips (multicam clips) that were also created by Flow.
- At sites with large Flow databases, performing searches on log entries might have been slow. This has been resolved.
- DVC Pro 25 PAL and NTSC are now correctly identified in Flow Browse even if the MXF container reports the incorrect format.
- Memory management has been improved when Flow receives notifications from Ark.
- File ingest performance from Op1a MXF clips has been significantly improved.
- **Drag and drop of clips from Flow Browse to Adobe Premiere Pro.** Depending on the codec, in previous Flow releases some clips might have come into to Premiere with a 4:3 aspect ratio when they should have come in with a 16:9 aspect ratio. This has been resolved.

New in Ark Version 2.2.1

The following are new features in version 2.2.1 of Ark:

- Migration of files from Ark Disk to Ark Tape. After backing up or archiving an EditShare space (Media Space, Project Space, etc.) to Ark Disk, that backed-up space will now appear in the Ark user interface as a source for future backups. By choosing an Ark Disk backup as a source for a Tape backup, you can migrate files from nearline (Ark Disk) to offline (Ark Tape). You can simultaneously maintain copies of an EditShare Space on both Disk and Tape; for instance, you may want to have quick access to files on Ark Disk, but maintain a second copy on tape for offsite storage. You can also delete the Ark Disk copy once you have successfully copied a space onto Ark Tape.

  NOTE: *EditShare Flow and Ark v2.3, slated for release in early November 2012, will include additional tools for migrating files from Disk to Tape. For instance, you will be able to perform a search in Flow Browse to find any clips that have been copied to both Ark Disk and Ark Tape and were created before a certain date (e.g., six months ago), then delete the selected clips from Ark Disk. In this way, you will be able to gradually eliminate older clips from Ark Disk while maintaining copies of all clips on Ark Tape.*

- **Backup of Flow database and Flow proxy files.** If you have Flow and Ark in your environment, you may now backup Flow proxy files and the Flow database to Ark Disk and Ark Tape destinations. Backing up these Flow resources requires a small manual configuration step. Please contact EditShare Support for assistance if this applies to you.

- Ark will now automatically reboot Spectralogic T50e tape libraries when rebooting is required to overcome issues with the tape library.

Fixed in Ark Version 2.2.1

Ark 2.2.1 resolves numerous issues related to running very large jobs and affecting how Ark uses memory. In the past, while an Ark job was running, the temporary storage of metadata about files being backed up or archived could cause low memory issues when the number of files was very large. Backups – including dry runs of backups, which must complete before the actual copying of files begins – should no longer hang or fail even when a Media Space contains millions of new files that need to be backed up.

This release includes many other significant fixes. Some of the more important highlights include:

- **Ark Restore jobs now fail immediately if the destination space quota is too small to add the files that will be restored.** Previously, the Ark Restore job would have proceeded and the job would have failed only when the destination ran out of space.
- **Multiple restoration jobs from different tape pools can now run in parallel.** Previously you could only run one restoration job at a time from Ark Tape, even if you had two or more free LTO drives. You can now run multiple restoration jobs in parallel as long as the files for each job come from different tape pools. If you are trying to run multiple jobs and the files all come from a single pool, only one job at a time will be processed and the rest will be queued. This limitation is a safeguard against having two jobs trying to request the same tape.
- **Ark Tape actions should no longer fail when DNS resolution is unsuccessful**. The need for DNS resolution has been removed from some underlying Ark Tape code.
- Ark Disk jobs may have failed if a hostname cannot be resolved by DNS. This has been resolved, and Ark Disk no longer depends on DNS.
- Ark database backup jobs should no longer fail inappropriately with the message "lack of appendable volumes".
- **Pool Selection in "Manage Ark Tape" inaccessible while a tape job is running.** This issue has been resolved, and you are now able to perform Ark Tape Management while a job is running.
- You may have found that modifying actions in an Ark job sometimes adds or removes spaces from the job that you did not select. This has been resolved.
- **Unable to backup from an Expansion Server to an Ark Disk location (regression).** This has been resolved.
- **Running the RAID Toolkit "Permissions Repair" will no longer always cause Ark Tape to backup the files again.** When you run the RAID Toolkit, the activity of checking each file for its ownership and permissions causes the timestamp of the file to change. In the past, updating the timestamp would trigger Ark Tape to backup the files again when a job that included those files was run. Ark Tape will now ignore this trivial change when deciding whether a file has been modified and needs to be backed up again.

  NOTE: *If the RAID Toolkit repairs a file's damaged permissions or ownership, the repairs will appropriately cause Ark Tape to backup the file again on the next execution of a relevant backup job.*

Important Considerations Before You Upgrade

Consider the following before you upgrade to the current version:

- If you performed a tape backup after installing EditShare v6.2.0.0/Ark v2.2.0.0 and cannot restore it, contact EditShare Technical Support before you upgrade.
- If you are running Geevs v5.1.3.0 or earlier, please update Geevs to the newest version (currently v5.2.1.0) before updating your EditShare Storage, Ark, or Flow servers.
- If you previously configured Ethernet Bonding in the Network Configurator in v6.1.3.1 or earlier, you should update to the current version, but you must contact EditShare Technical Support for assistance to avoid losing your network configuration. Bonds made under v6.1.3.1 or earlier (see "Configuring EditShare Network Settings" on page 72 and "New in Version 6.1.3.2" on page 54) might have resulted in poor bonding performance because of an error in the way they were configured prior to v6.1.3.2.

  If you have never configured bonding, or if you use bonding but are upgrading from v6.1.3.2 or later, you can update to the current version without assistance from EditShare Technical Support.
- If you were using EditShare Connect on OS X or Windows under EditShare v6.1.3.1 or earlier and had configured Avid Style or the Avid Launcher, you must you must first un-configure these features in the old version of EditShare Connect. Next, if you are a Windows user, you must uninstall the old version of EditShare Connect. Finally, both OS X and Windows users must update to the new version of EditShare Connect and re-enable Avid Style and/or the Avid Launcher.

  If you are upgrading from EditShare v6.1.3.3 or later, you can simply install the new EditShare Connect clients over the old ones. You may also need to re-target your Avid application in windows EditShare Connect and/or re-enable the Avid Style option on Windows or OS X.
- If you are upgrading from EditShare v6.0.5.14 or earlier, you must run the EditShare Role Assistant on every server (not just the EditShare Master server) after you upgrade to this version. This ensures that your Flow, Ark, and EditShare servers are configured to properly alert you if any drives fail on these servers. See the first issue in "Fixed in Version 6.0.5.15" on page 85.
- If Flow can't find DVS hardware after the Flow v2.2 update, re-run the Role Assistant from the Control Panel. You don't need to change any of the settings in the Role Assistant to resolve this issue; simply accept the

default settings presented and click Continue at each step, then reboot when prompted.

Supported Client Versions

This release supports several versions of client operating systems and editing applications. See the following sections:

- "Client Operating Systems" on page 12
- "Editing Applications" on page 12
- "Considerations for Using DAVE" on page 20

Client Operating Systems

See your editing application documentation for information on operating systems supported for your application version. EditShare has qualified its software with the following operating systems:

- Windows 7, Windows Vista, and Windows XP
- Mac OS X 10.4 (Tiger), 10.5 (Leopard), 10.6 (Snow Leopard), 10.7 (Lion), and 10.8 (Mountain Lion) on Intel Macs
  - All compatible versions of OS X require a compatible version of Thursby Software's DAVE software. For important information and a list of compatible DAVE versions for your operating system and editing application versions, see "Considerations for Using DAVE" on page 20.

    NOTE: *EditShare Connect v6.2.1 will still launch on PowerPC Macs. However, newer features of EditShare Connect, including the ability to connect to Avid Style spaces, may not work on PowerPC systems, and PowerPC builds of EditShare Connect are no longer in development.*

Editing Applications

EditShare works with many client editing applications and versions. EditShare has completed compatibility testing as described in the following sections:

- "Avid Media Composer" on page 13
- "EditShare and Avid Media Composer Version 6.x" on page 16

- "Apple Final Cut Pro" on page 16
- "EditShare and Final Cut Pro X" on page 17

Avid Media Composer

EditShare strongly recommends that you run your Avid application with the QuickTime version and operating system that Avid supports for your Avid software. For more information, see the Avid Media Composer Version Matrix at http://avid.force.com/pkb/articles/en_US/Compatibility/en267087, or navigate to the Avid Technology Knowledge Base for your product and search for "Composer Version Matrix".

The following table lists specific EditShare compatibility features:

Media Composer	OS Version	EditShare Avid MXF Spaces and EditShare Avid Project Spaces	Avid-Style Projects and Media	Required EditShare Version for Avid-Style Compatibility
3.x and earlier	OS X 10.4.x,10.5.x	Compatible; see Note 1.	Previously qualified; not tested with recent EditShare releases; see Note 2.	6.0.5.15 and later
3.x and earlier	Windows (Avid-approved)	Compatible; see Note 1.	Previously qualified; not tested with recent EditShare releases; see Note 2.	6.0.5.15 and later
4.x	OS X 10.5.7, 10.5.8, 10.6.2	Compatible	Compatible	6.0.5.15 and later
4.x	Windows (Avid-approved)	Compatible	Compatible	6.0.5.15 and later
5.0.3.9	OS X 10.6.5	Compatible	Compatible	6.0.5.15 and later
5.0.3.9	Windows (Avid-approved)	Compatible	Compatible	6.0.5.15 and later
5.0.4	OS X 10.6.3, 10.6.4, 10.6.7	Compatible	Compatible	6.0.5.15 and later
5.0.4	Windows (Avid-approved)	Compatible	Compatible	6.0.5.15 and later
5.5.1	OS X 10.6.6	Compatible	No; see Note 3.	6.0.5.15 and later
5.5.1	Windows (Avid-approved)	Compatible	Compatible	6.0.5.15 and later
5.5.2	OS X 10.6.6, 10.6.7	Compatible	Compatible except XDCAM media; see Note 4.	6.0.5.15 and later

Media Composer	OS Version	EditShare Avid MXF Spaces and EditShare Avid Project Spaces	Avid-Style Projects and Media	Required EditShare Version for Avid-Style Compatibility
5.5.2	Windows (Avid-approved)	Compatible	Compatible except XDCAM media; see Note 4.	6.0.5.15 and later
5.5.3	OS X 10.6.6, 10.6.7, 10.6.8	Compatible	Compatible and EditShare preferred Media Composer 5.5.x version.	6.0.5.15 and later
5.5.3	OS X 10.7.1, 10.7.2 (Lion)	Compatible; see Note 5.	Compatible; see Note 5 and Note 6.	6.1.3.0 and later
5.5.3	Windows (Avid-approved)	Compatible	Compatible and EditShare preferred Media Composer 5.5.x version.	6.0.5.15 and later
6.0, 6.0.1	OS X 10.7.1, 10.7.2	Compatible; requires DAVE v9.0.2 build 1450 or newer. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 5 and Note 6.	6.1.3.3 and later
6.0, 6.0.1, 6.0.1.1	Windows 7 Professional (64-bit)	Compatible. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 6.	6.1.3.3 and later
6.0.1.1	OS X 10.7.1, 10.7.2, 10.7.3	Compatible; requires DAVE v9.0.2 build 1450 or newer. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16. See Note 7.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 5, Note 6, and Note 7.	6.1.3.3 and later
6.0.3	OS X 10.7.1, 10.7.2, 10.7.3, 10.7.4, 10.8.0	Compatible; requires DAVE v9.0.2 build 1450 or newer. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16. See Note 7.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 5, Note 6, and Note 7.	6.2.1.0 or newer
6.0.3.1	OS X 10.7.1, 10.7.2, 10.7.3, 10.7.4, 10.8.0, 10.8.1	Compatible; requires DAVE v9.0.2 build 1450 or newer. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16. See Note 7.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 5, Note 6, and Note 7.	6.2.1.0 or newer

Media Composer	OS Version	EditShare Avid MXF Spaces and EditShare Avid Project Spaces	Avid-Style Projects and Media	Required EditShare Version for Avid-Style Compatibility
6.0.3	Windows 7 Professional SP1 (64-bit)	Compatible. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 6.	6.2.1.0 or newer
6.5	Windows 7 Professional SP1 (64-bit)	Compatible. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 6.	6.2.1.0 or newer
6.5	OS X 10.7.1, 10.7.2, 10.7.3, 10.7.4, 10.8.0, 10.8.1	Compatible; requires DAVE v9.0.2 build 1450 or newer. For more information, see "EditShare and Avid Media Composer Version 6.x" on page 16. See Note 7.	Compatible; requires the new EditShare Connect included with this version. See "New in Version 6.1.3.3" on page 51. See Note 5, Note 6, and Note 7.	6.2.1.0 or newer

- ***NOTE 1:*** If you use an Avid system from v3.1.3/7.1.3 or later, the Avid systems with which you share projects need to run v3.1.3/7.1.3 or later. If you use an Avid system from v3.1.2 or earlier, the Avid systems with which you share projects need to run v3.1.2 and earlier.
- ***NOTE 2:*** Avid Style spaces have not been tested recently on Media Composer v3 or earlier.
- ***NOTE 3:*** EditShare Avid-Style Media Spaces are not compatible with Avid Media Composer version v5.5.1 for OS X. You cannot create projects or capture media into EditShare Avid-Style Media Spaces if you run this version of Media Composer. The same limitation applies to v5.5.1 version of Media Composer on OS X when you store files on Avid's own Ethernet-attached Unity systems. Media Composer v5.5.1 for Windows is not affected by this issue.
- ***NOTE 4:*** In all versions of Media Composer v5.5.2 – whether for Windows or OS X – XDCAM HD and XDCAM-EX media files do not play back correctly when stored in EditShare Avid-Style Media Spaces or when stored on Avid's own Ethernet-attached Unity systems. EditShare recommends that if you want to store your media files in EditShare Avid-Style Media Spaces under v5.5.x, you should upgrade to Media Composer v5.5.3
- ***NOTE 5:*** Lion requires at least DAVE v9.0.2 build 1450 (see "Considerations for Using DAVE" on page 20). If you are upgrading to Lion from Snow Leopard (10.6) or earlier, you must first uninstall DAVE

before you upgrade. You should use only the latest EditShare-approved versions of DAVE – currently DAVE v9.0.2 build 1450 or DAVE v10.0.1 – with Lion and Media Composer v6.x. DAVE v9.0.2 build 1450, the latest approved version at this time, resolves important issues with the official released version of DAVE v9. See "Special Note on DAVE v9.0.2 build 1450 and DAVE v10" on page 21.

- ***NOTE 6:*** Using Avid-Style Media Spaces on OS X Lion or Mountain Lion with Avid Media Composer v5.5.3 or v6.x requires the new EditShare Connect version included with EditShare v6.2.1.
- ***NOTE 7:*** There is a known bug in Avid Media Composer v6.0.1.1 on OS X that causes Avid to crash when anything is dragged onto an Avid window or panel. The bug is not limited to EditShare products, and an Avid community moderator recommends changing your workflow to import files into Avid rather than dragging and dropping.

EditShare and Avid Media Composer Version 6.x

Media Composer v6.x for Windows is currently supported without any special caveats for use with all compatible EditShare spaces – Avid MXF Media Spaces, Avid Style Media Spaces, and Avid Shared Project Spaces.

Avid Media Composer v6.x for Mac is currently supported for use with all compatible EditShare spaces – Avid MXF Media Spaces, Avid Style Media Spaces, and Avid Shared Project Spaces. However, you should use only the latest EditShare-approved versions of DAVE v9 and v10 – currently DAVE v9.0.2 build 1450 and DAVE v10.0.1 – with OS X Lion and Mountain Lion and Media Composer v6.x. These versions resolve important issues with the officially released version of DAVE v9.0 in which Avid hangs while reading the small PMR media database files in any empty media folders in the OMFI Media Files or Avid Media Files/MXF directories, and in which you can get segmentation faults when switching between Media Composer and other applications. See "Special Note on DAVE v9.0.2 build 1450 and DAVE v10" on page 21.

Apple Final Cut Pro

The following table lists specific EditShare compatibility features with various versions of Final Cut Pro and OS X:

FCP Version	OS Version	FCP Media Stored on EditShare	FCP Projects Stored on EditShare	FCP Events on EditShare Media Spaces
7.0.3 and earlier	OS X 10.4.x, 10.5.x, 10.6.x	Compatible	Compatible	N/A
7.0.3 with all updates	OS X 10.7 Lion	Compatible; see Note 1.	Compatible	N/A
FCP X 10.0.1-10.0.2	OS X 10.6.7, 10.6.8	Compatible; see EditShare and Final Cut Pro X below.	N/A, see EditShare and Final Cut Pro X below.	Compatible; see EditShare and Final Cut Pro X below.
FCP X 10.0.1-10.0.2	OS X 10.7.x, 10.8.x	Compatible; see EditShare and Final Cut Pro X below, and Note 1.	N/A; see EditShare and Final Cut Pro X below, and Note 1.	Compatible; see EditShare and Final Cut Pro X below, and Note 1.
FCP X 10.0.3-10.0.5	OS X 10.6.7, 10.6.8	Compatible; see EditShare and Final Cut Pro X below.	N/A, see EditShare and Final Cut Pro X below.	Compatible; see EditShare and Final Cut Pro X below., specifically Moving an FCP X "Edit session" from one workstation to another.
FCP X 10.0.3-10.0.5	OS X 10.7.x, 10.8.x	Compatible; see EditShare and Final Cut Pro X below, and Note 1.	N/A; see EditShare and Final Cut Pro X below, and Note 1.	Compatible; see EditShare and Final Cut Pro X below, specifically Moving an FCP X "Edit session" from one workstation to another, and Note 1.

- ***NOTE 1:*** OS X Lion (10.7) requires DAVE v9.0.2 build 1450, and Mountain Lion (10.8) requires DAVE v10.0.0 or DAVE v10.0.1. (See "Considerations for Using DAVE" on page 20.) If you upgrade to Lion or Mountain Lion from Snow Leopard (10.6) or earlier, you must uninstall DAVE before upgrading.

EditShare and Final Cut Pro X

EditShare supports the use of FCP X for the storage of media as well as the storage of "Events" and "Projects". With default EditShare configurations, individual editors can store their own media in their own Events and Projects on an EditShare server. To get support for sharing media without copying it between different FCP X Events, some EditShare settings must be modified as described below. In general, the workflow with FCP X is as follows:

Saving FCP X Media and Events on EditShare Storage:

When creating a "SAN Volume" in FCP X, you can select an EditShare networked volume (i.e., a Managed or Unmanaged Media Space) or a folder on one of those types of spaces. Multiple users can have SAN Volumes on the same physical EditShare Media Space by creating folders for each user and adding

those folders as SAN Volumes. Once you have designated an EditShare Media Space, or a folder on the Space, to be a SAN Volume, you can create FCP X Events there and capture or transfer media into the Event.

Saving FCP X Projects on EditShare storage

In FCP X, Projects are the equivalent of Final Cut Pro 7 sequences.
FCP X Projects can be saved on EditShare Storage, in the same SAN Volumes where Events and media are stored. Note that FCP X saves all render files associated with a Project in the "Project directory" on the SAN Volume.

Moving an FCP X "Edit session" from one workstation to another

FCP X 10.0.2 and earlier:

FCP X does not allow multiple FCP X workstations to use the same SAN Volume simultaneously. In other words, you can configure the same SAN Volume for use on two different FCP X workstations, but only one workstation at a time can use that volume. If you have a SAN Volume mounted and FCP X is running, the volume is considered to be "in use". To move an Edit session from one workstation to another, you either need to close the FCP X application on the first workstation so that you can open it on the second workstation, or you need to remove the SAN Volume from the first workstation so that the second one can use it.

FCP X 10.0.3 and later:

As of 10.0.3, FCP X allows multiple FCP X workstations to access the same SAN Volume simultaneously. However, users must be extremely careful, as **FCP X 10.0.3 does not prevent users from overwriting each others' work when accessing the same Events.** In 10.0.5, FCP X may also hang or report errors when it attempts to save Events on a SAN Volume that is being accessed by another workstation. As a result, EditShare strongly recommends having a SAN Volume open by only one FCP X user at a time.

Sharing Media

In order to share media, FCP X users must import clips from other SAN Volumes into their own Events. If you create an FCP X event in a Managed or Unmanaged Media Space with the default EditShare configuration, FCP X will make a **new copy** of imported media in your own Event. It is possible to reconfigure your EditShare server so that FCP X will make **links** to the media instead of copying it. In a forthcoming version of EditShare, there will be an option to automatically reconfigure your EditShare system to support FCP X media linking. Until then, if you want to manually reconfigure your EditShare system to support media linking, you must contact EditShare technical support.

If you choose to support FCP X media linking, you will not be able to use Avid Shared Project Spaces, FCP Shared Project Spaces, or Avid MXF Media Spaces, because the change that makes FCP X media linking possible conflicts with those types of spaces. However, you will still be able to use Lockable Shared Project Spaces as well as Avid Style, Managed, and Unmanaged Media Spaces; even with full FCP X media linking support, you can still get project and media sharing for all other popular NLEs.

Sharing FCP X Projects between multiple editors

It is not currently possible for one FCP X editor to open up a Project "Read Only" while another editor is working on it. While EditShare developed and patented the concept of FCP Project Sharing and Shared Project Spaces – which makes it possible for a whole group of FCP7 editors to open the same projects simultaneously with a guarantee that only one editor at a time is granted write access to the project – FCP X does not allow more than one user at a time to access a Project or Event, even if additional users do not have write access to the Project or Event.

FCP X writes hidden "in use" files inside every SAN Volume, and when a second FCP X application tries to mount that SAN Volume to open up a Project or Event that is being used by another editor, an error box pops up saying the SAN Volume is already in use by another FCP X application. Note that it is also not possible to store FCP X Projects inside EditShare Shared Project Spaces. Shared Project Spaces were designed for metadata only, and EditShare blocks the storage of media files there; because FCP X stores all render files in the same location as the Project, FCP X Projects therefore must be stored on Managed or Unmanaged Media Spaces.

Sharing FCP X Projects via XML export and import

It is possible to export an XML copy of your FCP X Project and for another user to import the XML into his or her own FCP X SAN Volume. This is one way that multiple users can work on the same Project at the same time. Once imported, the second user will have a read/write copy of the Project that should link to all the media, assuming the media has also been imported into an Event on the same SAN Volume.

NOTE: *Depending on the FCP X version, EditShare has sometimes seen that FCP X can hang when importing a Project XML into a EditShare Space that has been configured as a SAN Volume. A simple workaround is to first import the XML onto a local drive and then simply copy it by drag and drop to the EditShare Media Space that has been configured as a SAN Volume.*

Other Editing Applications

EditShare supports Adobe Premiere Pro CS6 and earlier.

EditShare supports all versions of ProTools (including OS X and Windows versions) with EditShare iSCSI Spaces. ProTools 8 and later for Windows is supported for any EditShare Media Space. ProTools 10 and later for both OS X and Windows are supported with any type of EditShare space.

NOTE: *ProTools 10 users on Windows can read media from SMB volumes and store their sessions on Managed or Unmanaged spaces. ProTools 10 users on OS X can read media from SMB volumes but should store their sessions on Managed or Unmanaged spaces mounted ONLY by AFP (Apple File Sharing Protocol). While you can store your ProTools 10 sessions on spaces mounted by DAVE, you cannot record back to a DAVE-mounted volume. Recording will stop after a few seconds. However, there is no issue recording back AFP-mounted volumes. We are investigating this issue and expect to have session support on DAVE-mounted volumes in the near future.*

NOTE: *If you run an earlier version of ProTools for Windows and connect to EditShare Media Spaces without iSCSI, contact EditShare Technical Support before you upgrade to this EditShare release.*

Considerations for Using DAVE

When connecting to any kind of EditShare Avid space, including Avid Style, Avid MXF, and Avid Shared Project spaces, editors should generally use Thursby Systems' DAVE for mounting their EditShare spaces. With few exceptions, most other OS X editing applications such as FCP and Premiere should also use DAVE.

Table 2: Recommended and required DAVE versions for OS X

OS X Version	DAVE v7.1	DAVE v8.1	DAVE v9.0.2 build 1450	DAVE v10.0.0	DAVE v10.0.1
Mountain Lion (OS X 10.8)	Incompatible			Minimum	**Recommended**
Lion (OS X 10.7)	Incompatible		Minimum	Compatible	**Recommended**
Snow Leopard (OS X 10.6)	Incompatible	Minimum	Compatible	Incompatible	**Recommended**
Leopard (OS X 10.5) and Tiger (10.4)	Minimum	**Recommended**	Incompatible		

NOTE: *Always check the EditShare updates page (http://www.editshare.com/updates) for the latest information on DAVE.*

While DAVE v10.0.1 is the latest approved version of DAVE as of the publication of this ReadMe, EditShare and Thursby are constantly improving DAVE, so there may be a newer approved version by the time you read this document. All DAVE upgrades are free within the current product version, such as updates within point releases like DAVE v9.0 to DAVE v9.0.2. Upgrades to a new product version, such as from v8 to v9, are paid;

customers who purchased DAVE v9 licenses from EditShare may also be eligible for a free upgrade to DAVE v10. Contact Thursby Software Systems for upgrade information or visit http://www.thursby.com/purchase/upgrades.html to handle your upgrade online.

See the following sections:

- "EditShare and Avid Media Composer Version 6.x" on page 16
- "Special Note on DAVE v9.0.2 build 1450 and DAVE v10" on page 21
- "Mountain Lion (OS X 10.8)" on page 21
- "Lion (OS X 10.7)" on page 21
- "Snow Leopard (OS X 10.6)" on page 22
- "Leopard (OS X 10.5) and Tiger (10.4)" on page 22

Special Note on DAVE v9.0.2 build 1450 and DAVE v10

DAVE v9.0.2 build 1450 introduced many bug fixes, performance enhancements, and feature enhancements that directly benefit EditShare users, and DAVE 10 includes those improvements and more.

All Snow Leopard and Lion users should install DAVE v9.0.2 build 1450 or DAVE v10.0.1.

DAVE v9.0.2 build 1450 can be installed with any DAVE v9.x license. If you purchased a DAVE v9 license directly from EditShare, you may be eligible for a free upgrade to DAVE v10. Go to http://www.thursby.com/upgrades/dave/ to obtain upgrade keys and the DAVE v10 installer.

Mountain Lion (OS X 10.8)

Thursby Software Systems only supports DAVE v10.0.x on OS X Mountain Lion (10.8).

CAUTION: *If you are upgrading your OS from Snow Leopard to Mountain Lion, you must first uninstall DAVE before upgrading. If you don't first uninstall DAVE, you cannot properly install or run DAVE v10 on the newer version of OS X without contacting Thursby Software Systems Technical Support or reimaging your system.*

Lion (OS X 10.7)

Thursby Software Systems only supports DAVE v9 and v10 on OS X Lion (10.7). EditShare requires DAVE v9.0.2 build 1450 or newer, or DAVE v10.0.x or newer.

DAVE v10.0.x and newer contain bug fixes and performance improvements that will not be implemented in DAVE v9.0.x. EditShare recommends DAVE v10.0.x on Lion if your workstations will also run recent versions of Adobe Creative Suite, as DAVE v10.0.x resovles error messages that appear when saving files under DAVE v9.0.x.

CAUTION: *If you are upgrading OS X from Snow Leopard to Lion, you must first uninstall DAVE before upgrading. If you don't first uninstall DAVE, you cannot properly install or run DAVE on the newer version of OS X without contacting Thursby Software Systems Technical Support or reimaging your system.*

Snow Leopard (OS X 10.6)

DAVE v9.0.2 build 1450 and DAVE v10.0.1 are recommended by EditShare for use with OS X Snow Leopard (10.6.x) because they resolve many important issues in Snow Leopard that were never resolved in the DAVE v8 series.

On Snow Leopard, you must use DAVE v10.0.1 or newer, as it contains an important fix related to password handling when updating from earlier versions of DAVE or OS X.

Leopard (OS X 10.5) and Tiger (10.4)

DAVE v8.2 and DAVE v8.1 support Leopard (10.5.x) and Tiger (10.4.x). However, if you have Macs running Leopard or Tiger, DAVE v7.1 continues to work. You do not need to upgrade to DAVE v8.x. DAVE v9.0.x and newer are not supported for Leopard.

When you use DAVE v7.1 with Avid, you need to enable DAVE Workarounds. See "Avid Scan Issues" in the *EditShare Administrator's Guide*.

Changes in Previous Versions

The following sections describe changes in previous versions:

- "Fixed in Ark Version 2.2.0.1" on page 24
- "New in Storage Version 6.2.0.0" on page 24
- "Fixed in Storage Version 6.2.0.0" on page 48
- "New in Flow Version 2.2.0.0" on page 29
- "Fixed in Flow Version 2.2.0.0" on page 49

- "Fixed in Ark Version 2.2.0.0" on page 50
- "Fixed in Storage Version 6.2.0.0" on page 48
- "New in Storage Version 6.2.0.0" on page 24
- "Fixed in Version 6.1.3.4" on page 51
- "New in Version 6.1.3.3" on page 51
- "Fixed in Version 6.1.3.3" on page 52
- "New in Version 6.1.3.2" on page 54
- "Fixed in Version 6.1.3.2" on page 62
- "Fixed in Version 6.1.3.1" on page 63
- "New in Version 6.1.3.0" on page 64
- "Fixed in Version 6.1.3.0" on page 83
- "Fixed in Version 6.0.5.15" on page 85
- "New in Version 6.0.5.14" on page 88
- "Fixed in Version 6.0.5.14" on page 89
- "New in Version 6.0.5.13" on page 89
- "Fixed in Version 6.0.5.13" on page 92
- "New in Version 6.0.5.9" on page 94
- "Fixed in Version 6.0.5.9" on page 94
- "Fixed in Version 6.0.5.8" on page 99
- "New in Version 6.0.5.7" on page 99
- "Fixed in Version 6.0.5.7" on page 100
- "New in Version 6.0.5.6" on page 102
- "Fixed in Version 6.0.5.6" on page 102
- "New in Version 6.0.5.4" on page 103
- "Fixed in Version 6.0.5.4" on page 103
- "New in Flow Version 2.0.5" on page 104
- "Fixed in Version 6.0.5.3" on page 105
- "Fixed in Version 6.0.5.1" on page 105

- "Fixed in Version 6.0.5.0" on page 106
- "Upgrading from Version 5.5.22-23" on page 106
- "Configuring Your System with the EditShare Role Assistant" on page 107

Fixed in Ark Version 2.2.0.1

The following Ark limitations were fixed in version 2.2.0.1:

- The Ark Tape backup service previously failed to label new tapes correctly, resulting in backups that were successfully completed but subsequently unavailable for restoration through the Ark UI. This issue has been resolved.

  NOTE: *If you performed a tape backup after installing EditShare v6.2/Ark v2.2 and cannot restore them, contact EditShare Technical Support for assistance.*

New in Storage Version 6.2.0.0

The following new features were added in version 6.2 of EditShare:

- "Support for SNMP-connected UPS devices" on page 24
- "New DAVE Options in EditShare Connect for OS X" on page 26
- "Role Assistant – Flow Proxy Worker and Transcode Services" on page 28

Support for SNMP-connected UPS devices

EditShare servers ship with software to monitor APC-branded uninterruptible power supplies (UPS). Provided that each server is powered by and connected to an approved APC UPS, in the event of a power loss the monitoring software will shut down the EditShare server cleanly. Until now, it was required to have one dedicated APC UPS device for each EditShare server at a facility, and the servers had to be connected to the UPS by a USB cable. However, beginning with EditShare v6.2.0.0, it is now possible for EditShare servers to monitor large centralized UPS devices via a local network connection using the SNMP protocol. Provided the EditShare server is powered by the centralized UPS, in the event of a power loss at the facility, the EditShare server will receive an SNMP notification from the UPS and shut down cleanly.

By default, EditShare servers are configured to monitor only USB-connected UPS devices. If you want to use a central UPS device instead of a dedicated UPS

for each server, you must reconfigure the UPS monitoring daemon to listen to SNMP notifications rather than monitor to the USB connection.

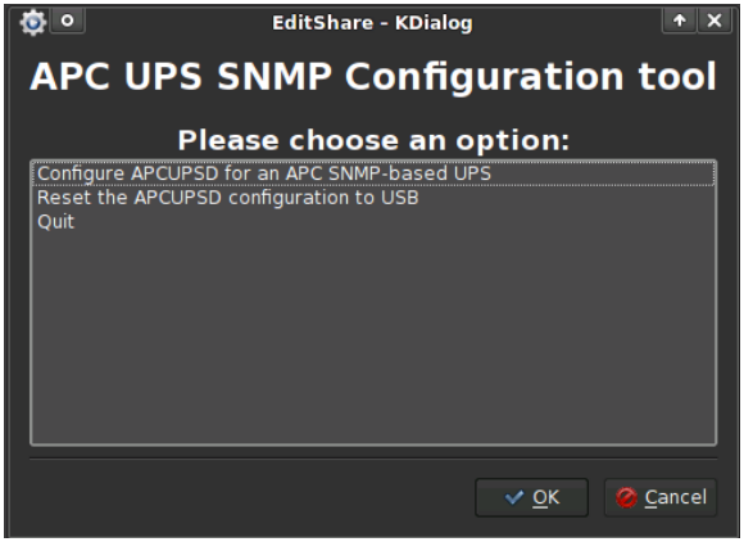
Configuring the server to monitor an SNMP-based UPS

Before you can configure the EditShare server to monitor your network-based APC UPS, you should have the following information ready:

- the **IP address** of the SNMP management card on the UPS
- the **SNMP community name** (usually "public" or "private")

TASK

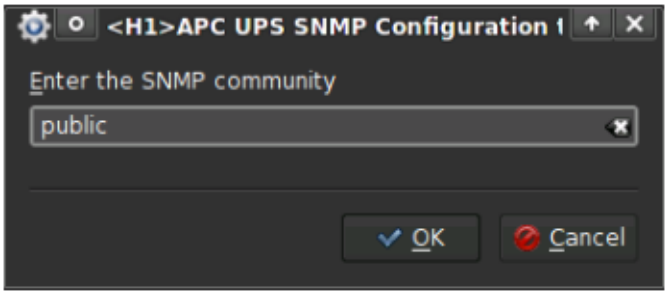
1. From the EditShare Control Panel, open the "SNMP Configuration" icon and choose the first option:



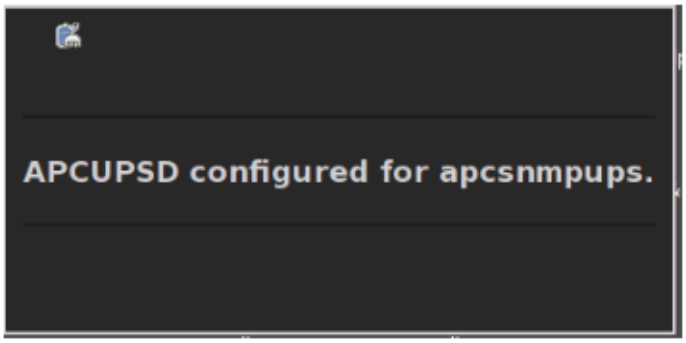
2. Enter the IP address (or hostname, if you are sure that DNS is configured properly in your environment) of the APC SNMP monitoring host.

   The tool will check that it can connect to the supplied host or IP address; if it fails to contact the host, it will prompt you again for the IP address or hostname.

3. Once you have entered a valid response, enter the correct SNMP community name:



4. Once the tool has configured the files properly, you should see a confirmation message:



The server is now configured for SNMP-based monitoring of an APC UPS.

Configuring the server to monitor a Directly-Connected UPS

By default, the EditShare server is shipped with UPS monitoring enabled and configured for a USB-attached APC unit. If you enable SNMP monitoring as described above and then decide you want to switch back to USB monitoring, open the SNMP Configuration tool in the Control Panel and choose the second option: “Reset the APCUPSD configuration for USB”

New DAVE Options in EditShare Connect for OS X

EditShare Connect for Mac now includes a tool to configure two new important DAVE options. You must be running DAVE v9.0.2 build 1450 or higher to configure these options, as they do not apply to earlier versions of DAVE.

The first time you launch the new version of EditShare Connect while running DAVE v9.0.2 build 1450 or higher, you will be prompted to set the following:

EditShare Optimizer
DAVE caching is currently enabled. We recommend you leave caching enabled unless you are using Edit While Capture.
Do you want to leave DAVE caching enabled?
Yes
No
DAVE aggressive file locking is currently enabled.
Do you want to disable aggressive file locking?
Yes
No
Cancel
OK

Enable/Disable Aggressive File Locking

EditShare recommends disabling Aggressive File Locking.

Starting with DAVE 8.2, a new "file locking" behavior was implemented in DAVE to prevent two or more Microsoft Office users from being able to simultaneously open up the same document on a network volume. While this was helpful for protecting the integrity of Office documents, it caused numerous issues for NLE users who were trying to share the same media and project files.

For example, if one Final Cut Pro user performs a "Log and Transfer" of a clip from an XDCAM card, no other user can play the clip until the ingest user quits Final Cut and logs off of EditShare. These sorts of issues were not present in DAVE 8.1 and earlier, and thus with earlier versions of DAVE, sharing media was much easier.

The new EditShare tweak allows users to disable the recent DAVE locking behavior and make file locking in DAVE v9.0.2 build 1450 and higher behave much like it does in DAVE v8.1.

By default, EditShare Connect will select "disable aggressive file locking", which is what we recommend for workstations that will be sharing media and project files. If you need to re-enable the "agressive locking" behavior, you can do so in the new System Optimization settings under the File menu in EditShare Connect.

Enable/Disable Caching

EditShare generally recommends leaving caching enabled unless you are using the Edit While Capture feature in Flow or Geevs.

When the DAVE SMB client retrieves files over the network, it passes data through the general OS X "RAM cache" by default and leaves the data there as long as there is space.

For instance, if OS X and your NLE application are using 3 GBs of RAM and your system has 8 GBs, it's possible that up to 5 GBs of media files may remain in your RAM cache after you read them over the network. This sort of first-in/first-out caching can help improve NLE performance and reduce overall network traffic because, for instance, when you are scrubbing back and forth on the same part of the timeline, it is likely that the media you are playing is already in the local RAM cache and thus doesn't have to travel over the network.

Caching, however, can cause issues when you are viewing Edit While Capture clips that have been created by Flow or Geevs Ingest.

When EWC clips are created, they look like complete clips that have a specified duration. At the beginning the entire clip consists of a "slate" that says "Media Not Yet Captured". As the capture proceeds, the "slate" gets replaced by real media. When DAVE caching is enabled and you scroll into the part of the clip that has the "slate", sometimes you will see "Media Not Yet Captured" at random spots in your captured video because the "slate" is still in the cache for those parts of the file. Disabling caching will resolve the issue of seeing the "Media Not Yet Captured" slate in the middle of captured video.

Role Assistant – Flow Proxy Worker and Transcode Services

The Role Assistant is used to configure which "services" will run on a given physical EditShare server. For instance, you can use the Role Assistant to designate that a server should be a "storage expansion" or a "Flow Admin" rather than a "storage master" (note that configured services will only run if they are enabled on the dongle). Two new roles have now been added to the Role Assistant – "Flow proxy worker" and "Flow transcode".

Flow Transcode

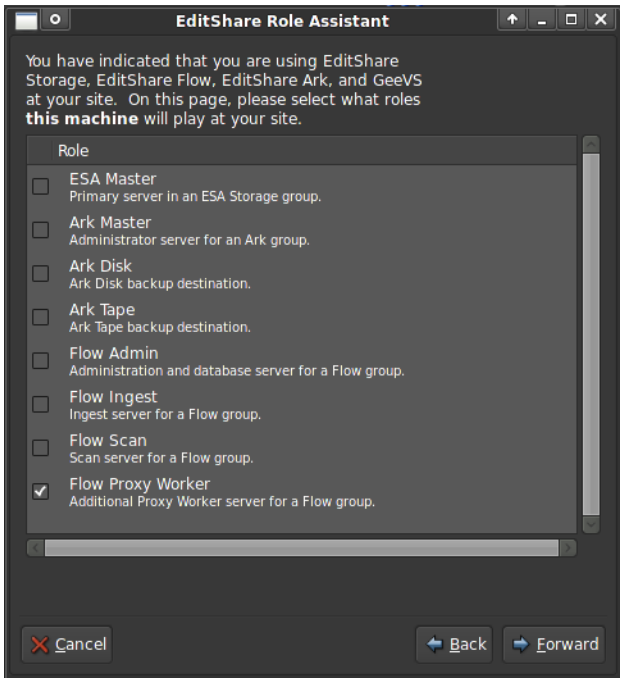
Beginning with Flow 2.2, all Ark Disk servers configured in a Flow environment automatically include the Flow Transcode service. The service allows you to restore archived sub-clips or sequences that reference archived media from Ark Disk or third-party storage.

Proxy Worker

Beginning with Flow 2.2, the roles of proxy making and scanning have been separated. As before, Flow Scan must be run on only one server in a Flow group.

However, any EditShare server can now be designated as a “proxy worker” and once active, that server can then assist Flow when it performs proxy encoding. After Flow Scan determines which clips need proxy file creation, the workload can be divided among all available proxy worker nodes according to the number of available proxy-making slots you have selected.

The Proxy Worker role is enabled automatically when you select the Flow Admin and/or Flow Scan roles in the Role Assistant or can be enabled on any other server in the Flow group.


EditShare Role Assistant
You have indicated that you are using EditShare Storage, EditShare Flow, EditShare Ark, and GeeVS at your site. On this page, please select what roles this machine will play at your site.
Role
ESA Master
Primary server in an ESA Storage group.
Ark Master
Administrator server for an Ark group.
Ark Disk
Ark Disk backup destination.
Ark Tape
Ark Tape backup destination.
Flow Admin
Administration and database server for a Flow group.
Flow Ingest
Ingest server for a Flow group.
Flow Scan
Scan server for a Flow group.
Flow Proxy Worker
Additional Proxy Worker server for a Flow group.
Cancel
Back
Forward

For instance, if your Ark gateway server is rarely very busy, you can use it to help Flow make proxies. Standalone Proxy Worker servers are also available for purchase. For more information on these new Flow roles, see "Managing Proxies" on page 45.

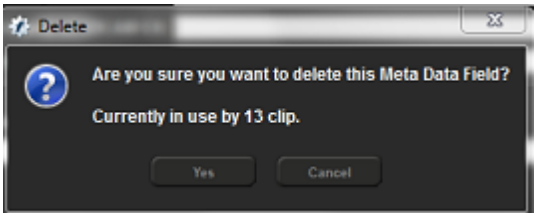
New in Flow Version 2.2.0.0

The following features were added in version 2.2 of Flow. The *Flow v2.1 Setup and User’s Guide* contains information for versions of Flow up to and including v2.1. All new Flow v2.2 features are currently documented in this ReadMe. In a future release, this information will be integrated into the *Flow Setup and User’s Guide.*

- Group clips. See "Group Clips" on page 31.

- Clip status icons. See "Clip Status" on page 31.
- File deletion from Flow Browse. See "Deleting Files from Flow Browse" on page 32.
- Scan options in Flow Browse. See "Scanning from Flow Browse" on page 40.
- Partial file restoration from Ark Disk. See "Partial File Restoration from Flow Browse" on page 36.
- You can now restore from a project, a folder, a clip, or a sequence in Flow Browse.

  NOTE: *You must expand the contents of a project or a folder to be sure the entire contents is restored.*
- Viewing file ingest status. See "File Ingest Status" on page 39.
- Searching for similar files. See "Search Changes" on page 34.
- Media Spaces arranged in Flow Browse according to type. See "Media Space Arranged by Type" on page 41.
- The Metadata tab in Flow Browse has an improved layout, and you can configure the layout in Flow Control. See "Custom Metadata" on page 42.
- The Timeline includes several improvements. See "Timeline Changes" on page 43.
- The Project view includes several improvements. See "Projects Tab Changes" on page 44.
- You can now use Flow with third-party storage that supports Samba. See "Third-Party Storage" on page 46.
- You can now change locked metadata if you have the correct permissions. See "Changing Locked Metadata" on page 47.
- You can now scan Avid JFIF 4:1s and Avid JFIF 10:1 files. You can now scan Canon 5D files.
- You can now drag a Flow project or Flow folder into Final Cut Pro 7 or Adobe Premiere.
- You can now scan in Flow Browse only if you have permissions in the Users tab of Flow Control. By default, permission is not granted to users.
- You are now queried when you try to delete a custom metadata field, and informed if it is used by clips.



- Expanded file and codec support. See "Codec and file format support" on page 48.

Group Clips

If you ingest as a ganged capture from several inputs into a group, you can then drag the group clip into your Avid editing application and edit it using their Multi-cam feature. You can also create a sequence from group clips and drag that into the Avid application.

Clip Status

The clip status icons have been updated and are used consistently across the application.

The icons are as follows:

- Red X means a clip is offline.

- Amber A means a clip is archived.

- Double green down arrows means the clip has online subclips.

If a given icon appears in black, it means the following:

- Black X means the clip is online.
- Black A means the clip is not archived.
- Black double down arrows means the subclips are offline.

NOTE: *A clip might display two or all three of the icons at once.*

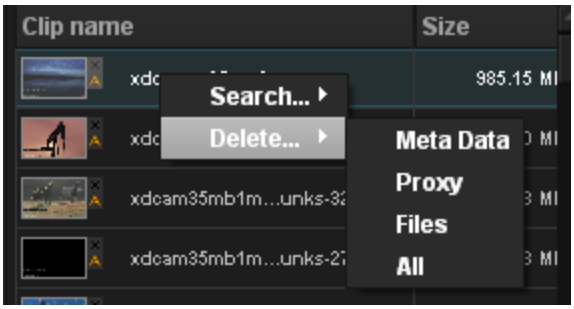
Deleting Files from Flow Browse

If your username has file-deletion permissions in Flow Control, you can now select one of several options when you delete files from within Flow Browse.

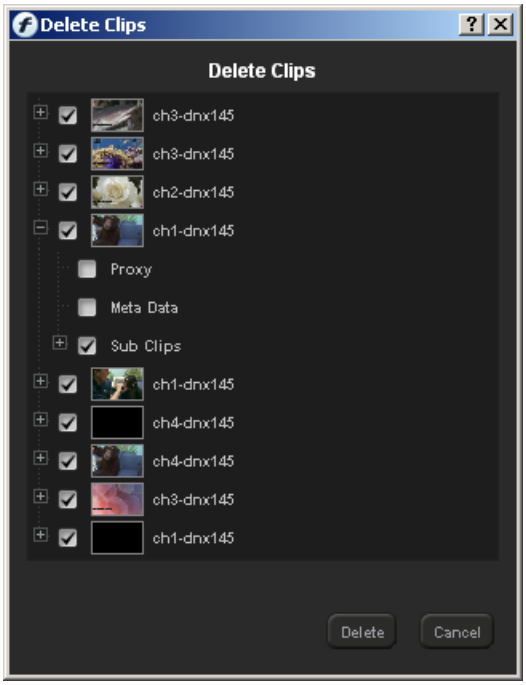
TASK

1. Open the Users tab in Flow Control, and make sure your username has either permission to Delete Own Files or Delete All Files (or contact your Flow Administrator).

2. In Flow Browse, right-click a clip and select Delete > *Delete Option*, where *Delete Option* is one of the following:
   - Meta Data. Deletes the metadata from the database.
   - Proxy. Deletes the proxy file.
   - Files. Deletes the file from storage.
   - All. Deletes all files.



NOTE: *If you select multiple clips for deletion, you have the option of selecting which elements of each clip you want to delete.*



The deleted files are saved to EditShare Trash automatically.

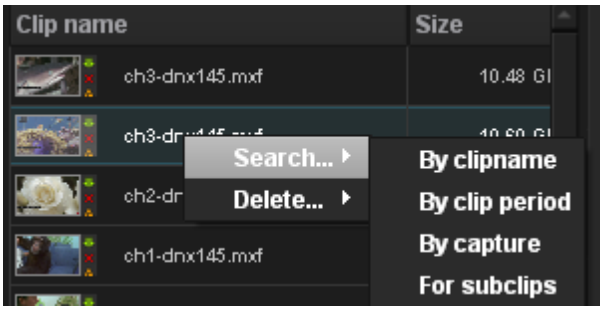
Search Changes

You can now refine your Search to look for similar files. You can also choose to display all or any matches, use quotes to match text exactly, and select "is not" as a Search criteria.

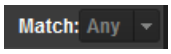
To use the new Search options, do any of the following.

TASK

- Right-click a clip and select one of the following:



  - By clipname. The Search returns anything with the same clip name.
  - By clip period. The Search returns matching chunks for grouped or ganged captures.
  - By capture. The Search returns all clips in the same Capture session.
  - For subclips. This can be useful when you ingest from files and want to see which clips are already online.



- In the Advanced area, select one of the following from the Match list:
  - All. Meets all the selected search criteria.
  - Any. Meets any of the selected search criteria.

  NOTE: *Flow Search ignores filename extensions. If you specify a file type by including the filename extension in your criteria, the search is not restricted by the information.*

- In the Advanced area, to exclude text from the search, select "is not" from the Search criteria list.
- In QuickSearch, to search for exactly the text you type, surround the text with double quotation marks (for example, "Friday rushes").

Search examples

Here are some sample searches to help demonstrate the improvements to the search feature:

Basic Searches

- [dog]
  - matches anything that contains the text 'dog' (or 'dogs' or "dogleg' etc) in any metadata field
- [“dog”]
  - matches anything that has the word 'dog' in any metadata field
  - respects word boundaries; won't match 'dogs', 'dogleg', etc.
- [dog walking beach]
  - matches anything that contains all the text 'dog', 'walking' and 'beach'
  - won't match any clips that just have a match on one of these fields
  - does not care about word order
- ["dog walking on the beach"]
  - matches anything that contains the whole phrase 'dog walking on the beach'

AND/OR

- [dog OR walking OR beach]
  - matches anything that has text 'dog' or 'walking' or 'beach'
  - can also write as [dog | walking | beach]
- [dog AND walking AND beach]
  - same as default behaviour of [dog walking beach]
  - can also write as [dog & walking & beach]

Wildcards

- [*word]
  - matches anything with a metadata field whose value ends with 'word', e.g. 'the last word'
- [word*]
  - matches anything with a metadata field whose value starts with 'word', e.g. 'word count'

Exact Match

- [=dog]
  - matches anything that has a text value of just 'dog'
- [=match this exactly]
  - will only match something that has a metadata field values of exactly 'match this exactly'

Filters

Quick searches search all metadata fields by default. If you want to restrict the results to clips, subclips or markers you can.

- [good #clip]
  - matches any clip with a field value containing 'good'
- [good #subclip]
  - matches any subclip (log entry) with a field value containing 'good'
- [good #marker]
  - matches any marker with a field value containing 'good'

Partial File Restoration from Flow Browse

Flow now supports partial file restoration from Ark Disk. You can choose to restore an entire file or only part of it, and you can link to a file's master clip. You can view the progress as the file is restored. A new proxy file is created automatically.

This feature is useful, for example, when you have a library of archived material and you want to restore parts of clips.

See the following topics:

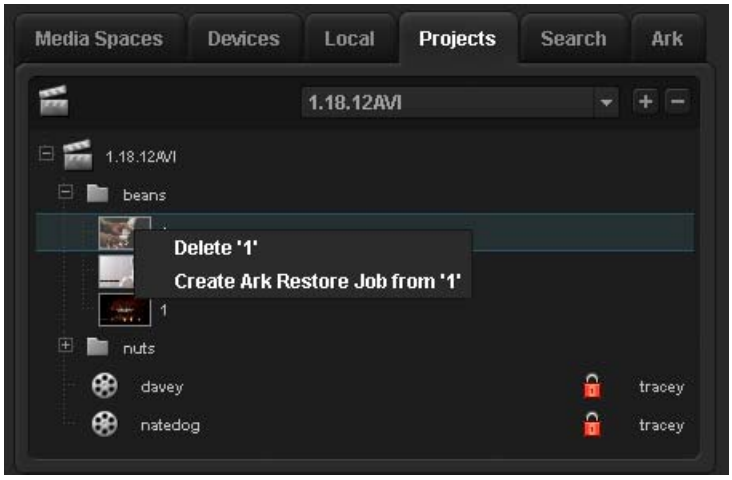
- "Partial File Restoration in a Sequence" on page 37
- "Partial File Restoration with Subclips" on page 38

Partial File Restoration in a Sequence

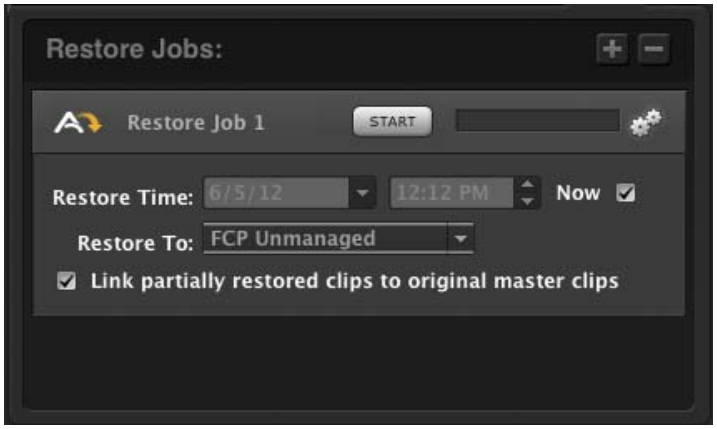
To use partial file restoration in a sequence, do the following:

TASK

1. Create a sequence in Flow using sections of archived clips.
2. Right-click the sequence in the Projects tab and select Create Ark Restore Job from *SequenceName* to create a Restore job from the sequence.



The Restore Jobs tab opens.

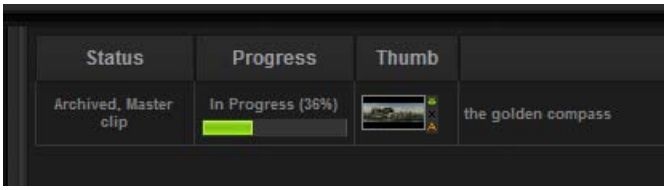


3. Select Link Partially Restored Clips to Original Master Clips.

   NOTE: *Checking "Link partially restored clips to original master clips" creates a link between the sequence and the newly restored partial files. If you do not check this box, your restored sequence will remain linked to the original parent clips that only exist in the archive. Therefore, when you drag and drop your sequence into Avid or FCP, the restored clips will still show up as "offline".*

4. Click Start.

   Flow restores the sections of the clips required and links the sequence to them. As the restore goes on, you can view its progress in the clip list and also in the Ark tab.



   When the restore is finished, the sequence status changes to Online.

5. Drag the sequence to your editing application.

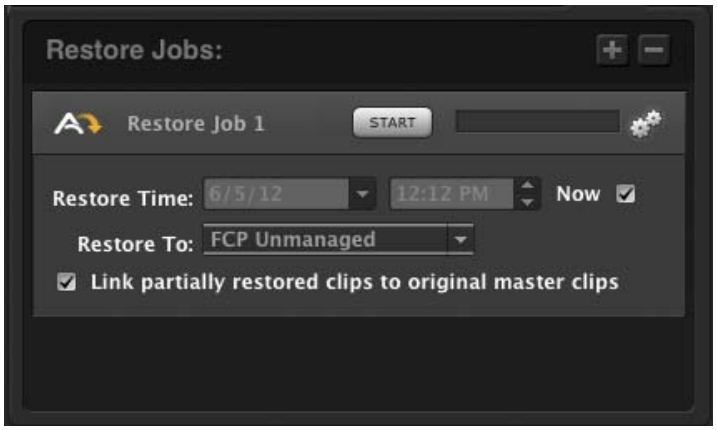
   Flow automatically creates a sequence that references the newly restored partial files instead of the archived master clips you originally created the sequence from.

Partial File Restoration with Subclips

You can create subclips and add them to a Restore job.

TASK

1. In the Flow Browse Ark tab, click the Plus symbol (+) to create a new Restore Job.



2. Double-click the Restore Job name.

   The Restore Job tab opens under the Media Player.

3. Open an archived clip.

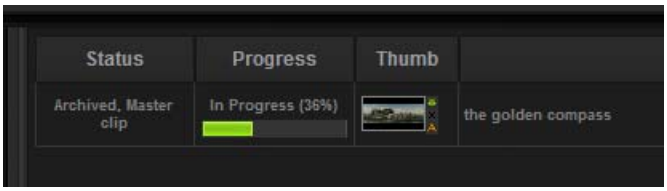
4. Select In and Out points, and drag the subclip from the Media Player window to the Restore Job tab under the Media Player.

5. (Option) Select Link Partially Restored Clips to Original Master Clips.

   NOTE: *If you do not select this option, the restore job creates a new clip that is not associated with the original master clip or subclips.*

6. Click Start.

   Flow restores the sections of the clips required (and links them to their master clips if you selected that option). As the restore goes on, you can view its progress in the clip list and also in the Ark tab.

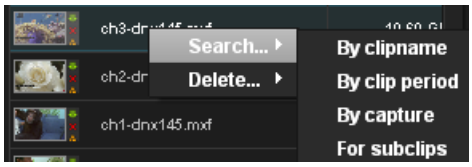


   When the restore is finished, the subclip status changes to Online.

File Ingest Status

When you ingest files from XDCAM, P2 cards, or local storage, the Timeline view for each clip will now indicate which portions of the clip have been ingested. At first, the entire timeline will be red. Over time, the sections of the clip that you chose to ingest will progressively change to green, showing you the progress of your file ingest.

Green areas indicate portions of files that have been ingested and are online. You can right-click and search for the subclips that have been ingested from each clip.



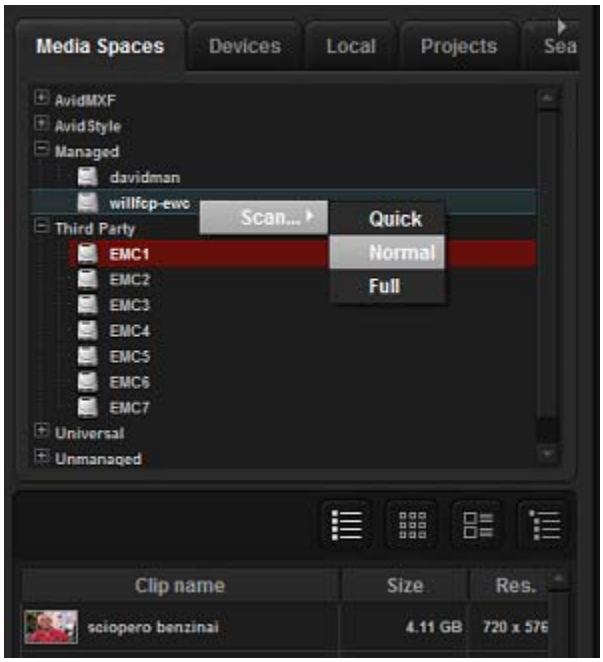
Scanning from Flow Browse

You can now scan from Flow Browse. Three new scan options are available: Quick, Normal, and Full.

To scan from Flow Browse, do the following.

TASK

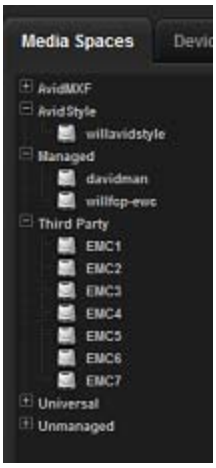
1. Open Flow Control, and make sure your username has permission to use Flow Browse Scan (or contact your Flow Administrator).
2. In Flow Browse, click the Media Spaces tab.
3. Right-click a Media Space and select Scan > *Scan Speed*, where *Scan Speed* is one of the following:



- **Quick.** Compare all files that are currently present in a Media Space to files previously recorded for that space in the Flow Database. Only looks at file paths, file names, file sizes, and modification times. Quick Scan will generally detect any new files plus files that have been modified since the last time the space was scanned (for example, files that were moved to a new directory in a Media Space). Any new or modified files that are detected will result in the Flow database getting updated. "Identification Hashes" (unique fingerprints) will be generated for all new files. Proxy files will be generated for any clips that don't have them yet, unless Flow is configured not to make proxy files. Files that have been deleted will be detected as offline.
- **Normal.** Similar to Quick Scan, except that a hash is calculated for every file currently in the Media Space and compared to the hash stored in the Flow database. Normal scanning is guaranteed to pick up even subtle changes to files that could be missed by a Quick scan, but it uses more network bandwidth and CPU resources to calculate the hashes.
- **Full.** Rescans all clips and extracts metadata from the file headers regardless of whether the files were previously known or not. In general, it should never be necessary to do a full scan, unless an update to Flow changes the information extracted from files and it becomes necessary to look at every file again in great detail. Full scans use the most CPU and network resources.

Media Space Arranged by Type

In Flow Browse, Media Spaces are now arranged by type. See the following illustration.



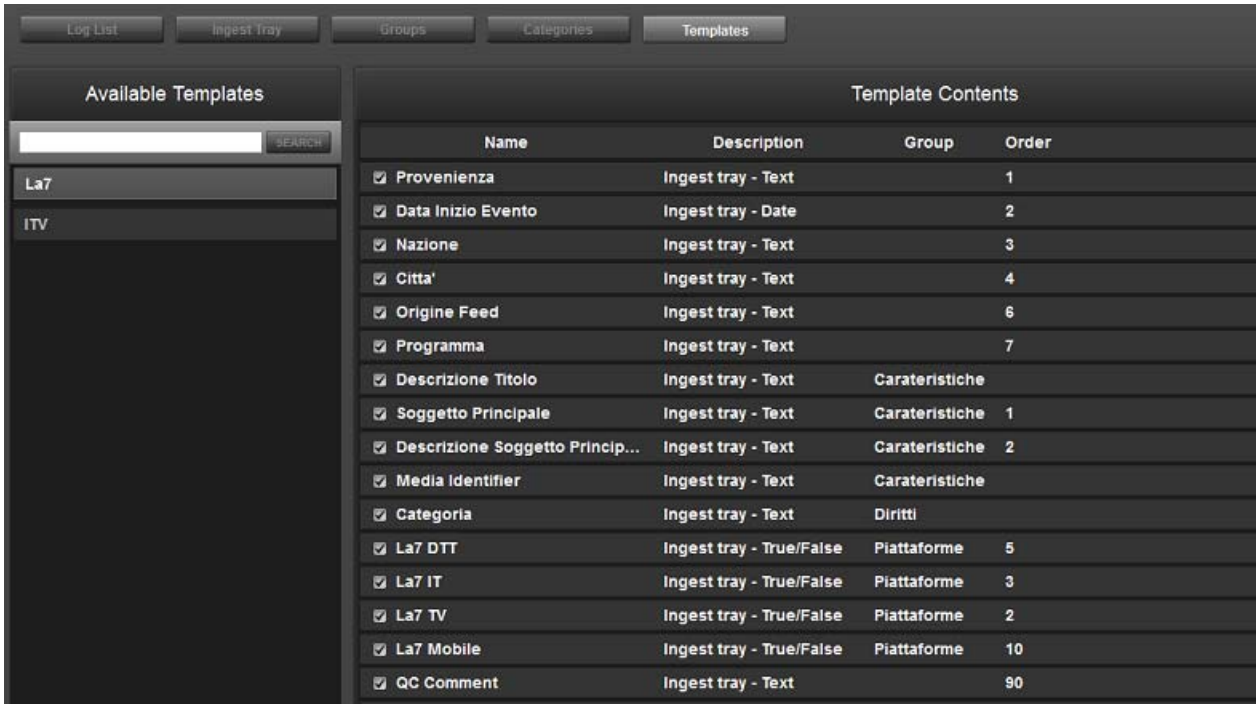
Custom Metadata

In Flow Control you can now configure how your custom metadata displays in the Flow Browse Metadata tab.

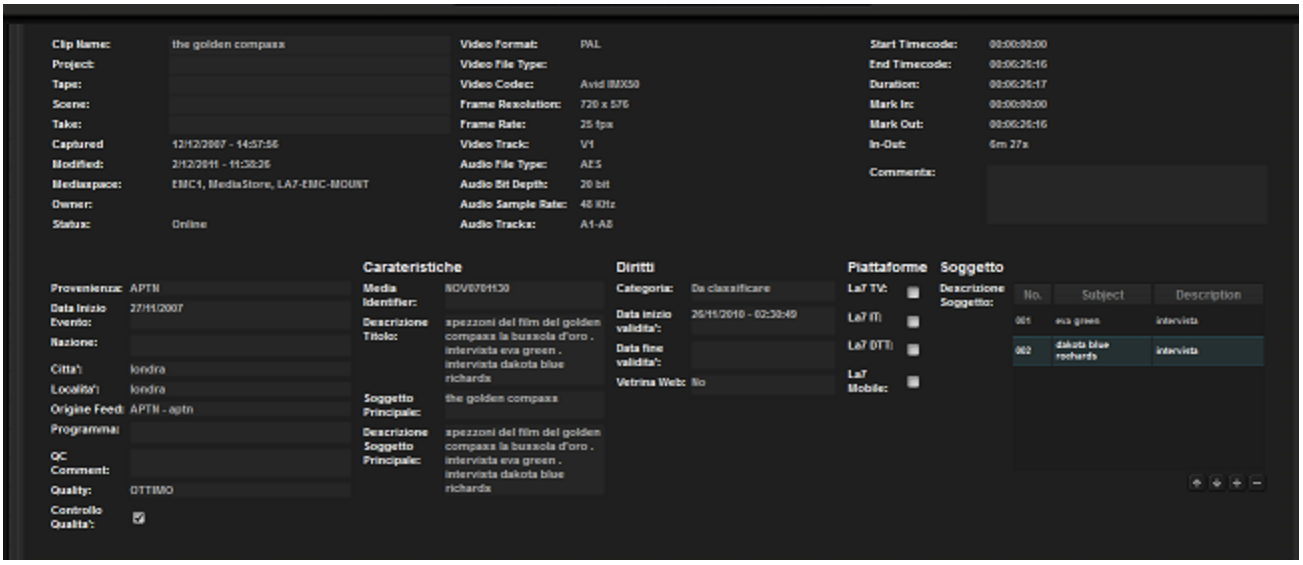
To configure your custom metadata display, do the following.

TASK

1. Open Flow Control.
2. Click the Metadata tab, and then click the Templates tab.



3. For each template item, you can add it to a group and specify the order.



The Flow Browse Metadata tab reflects your choices.

Timeline Changes

The Timeline includes the following new features:

- It uses green, amber and red lines to indicate which sections of a clip are “online” (green), “archived only” (amber) or do not exist in a high-resolution format at any known location (red).

NOTE: *It is possible that a clip and its proxy files are still in the Flow database, but that all copies of the corresponding high-resolution files have been deleted. If part*

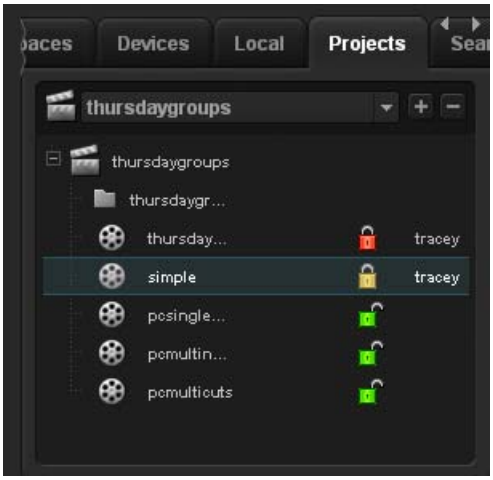
of the clip had been restored in a partial file restoration, and then archived, the clip might show up with sections that are green and amber, and sections that are red.

- The interval marks are now spaced at the nearest frame, second, or minute.
- When you drag In and Out points and markers, if you press the Shift key or the right mouse button, the point or marker snaps to the nearest interval mark.

Projects Tab Changes

The Projects tab includes the following new features:

- Padlocks in three colors indicate ownership, as follows:



– Red means the sequence is in use and is owned by another user.

– Amber means the sequence is not in use. You can click it to take ownership.

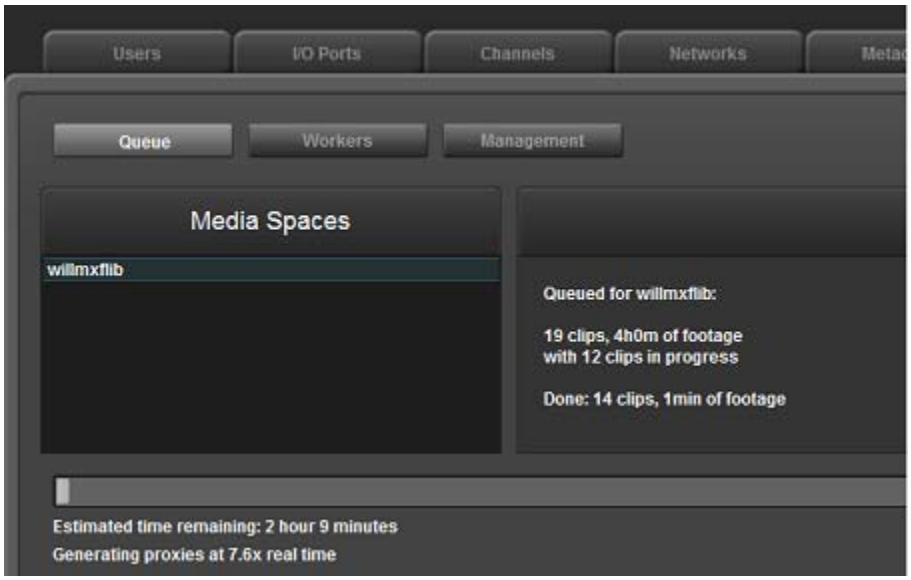
– Green means you are the current user of the sequence.

- Administrators can unlock a sequence locked by another user.
- You can add clips and subclips to sequences.
- You can right-click a clip, sequence, folder, or project and select Restore to create an Ark Restore job.
- If a user has been deleted in EditShare Manager, that user's projects and sequences might still exist but will appear with the red locked icon. An Administrator can change the status of the item to Read-only so it appears with the amber icon and is available to other users.

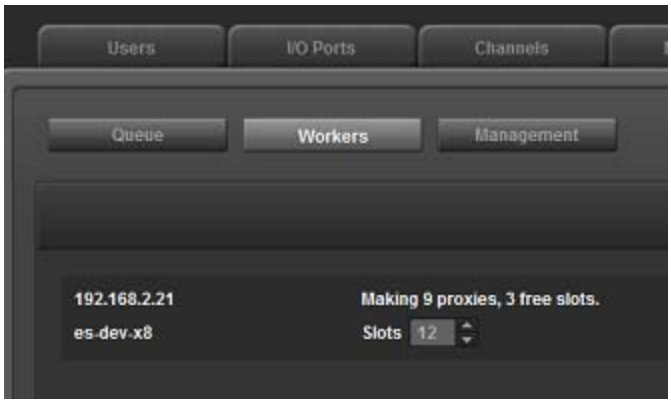
Managing Proxies

The Proxy tab in Flow Control has three new tabs.

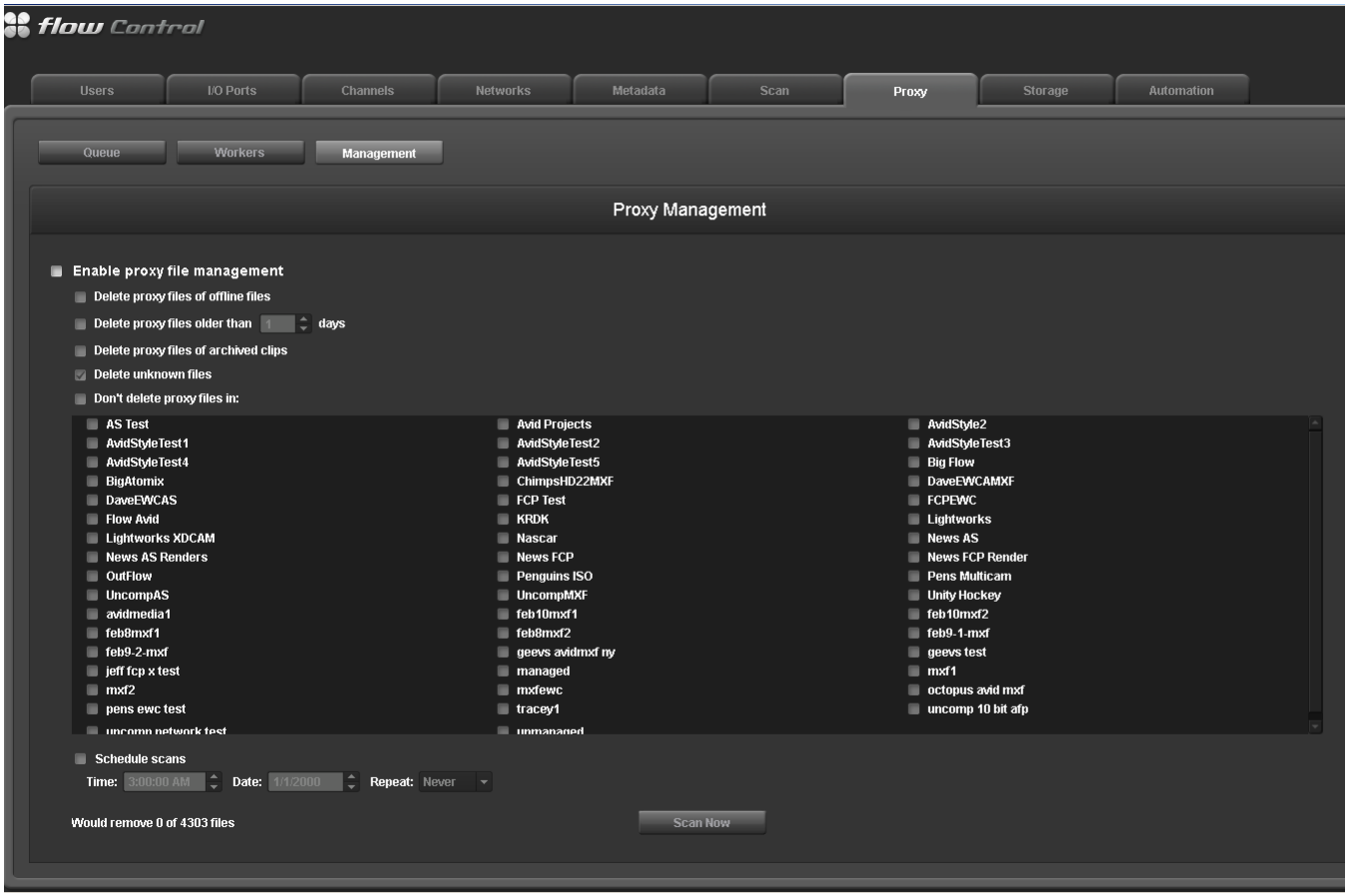
In the Queue tab you can now monitor the proxy creation process.



You can now configure one or more servers as Proxy Workers. In the Workers tab you configure the number of slots on each Proxy Worker.

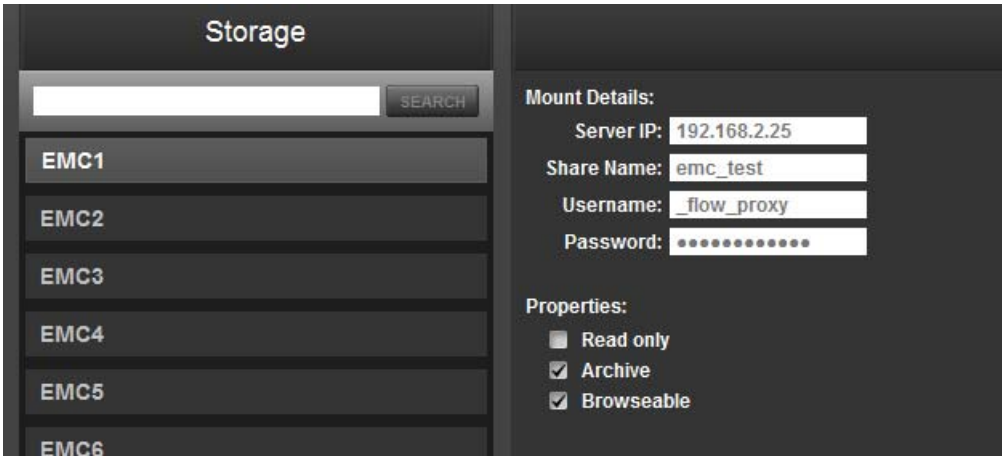


You manage proxy options in the Management tab.

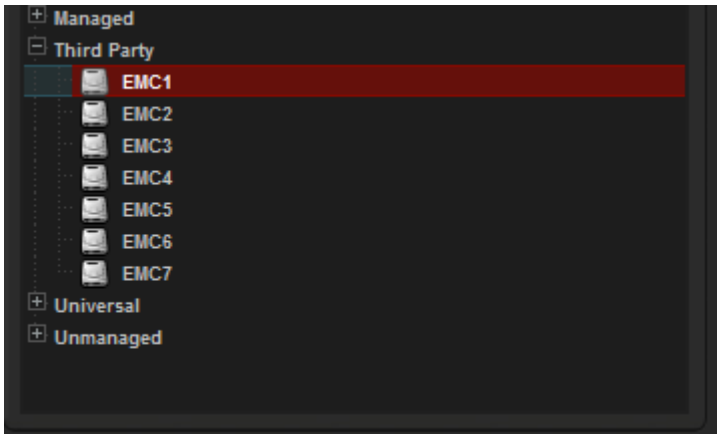


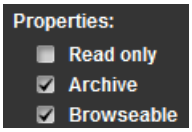
Third-Party Storage

You can purchase a Flow option to use third-party storage as long as the storage can export (expose on the network) Windows Networking volumes (known in the Linux world as “Samba shares”). See the following Flow Control illustration:



After you configure the third-party storage in the new Flow Control Storage tab, it appears in Flow Browse.





If you select the Browseable option, you can use Flow Browse to browse and search the entire contents of Media Spaces on third-party storage. You can also scan and create proxies of files in third-party storage. Files in third-party storage display a status of Archived.

Changing Locked Metadata

If your username has Locked Metadata write-access permissions in Flow Control, you can change locked metadata from within Flow Browse. You can change, for example, metadata that is normally considered invariant such as Tape names, which are encoded into the metadata of some media files. This can be useful if, for example, a Take or Scene name has an error in it.

To change locked metadata, do the following.

TASK

1. To be able to change locked metadata, open the Users tab in Flow Control, and make sure your username has permission for Locked Metadata Write Access (or contact your Flow Administrator).

2. In Flow Browse, click the locked metadata field you want to change, for example, Scene, Take, or Episode, and type the correct information.

Codec and file format support

Flow v2.2 has expanded support for video codecs and file formats. For a complete, up-to-date compatibility matrix, visit http://updates.editshare.com/flow-codecs-2.2.

Fixed in Storage Version 6.2.0.0

The following storage limitations were fixed in version 6.2:

- **Automatic repair of Quotas:** In the past, you might have seen the Daily Health Report and the EditShare Manager Quota tool report that a file system was thousands of times bigger than it actually was. This will now be fixed by rebooting the server. If EditShare detects the quota reporting has become unreliable, you will receive an email advising you to reboot the server. During the reboot process, the quota issue will be automatically repaired.
- **Netatalk restart no longer necessary when making new spaces:** In the past, whenever you created a new Managed, Unmanaged or Avid Style space, EditShare Manager would automatically restart "Netatalk", the Linux service that exports AFP (Apple Filesharing Protocol) Volumes. Restarting the Netatalk service would disconnect any AFP users who currently had a connection. Now, it is no longer necessary to restart Netatalk when creating a new EditShare space. When an OS X client logs into EditShare Connect, it will see any new new spaces that have been added and be able to mount them by AFP without having to restart Netatalk first. Note that if a client is already connected to the EditShare server, it will still have to log out and log back in to see any new spaces.
- **Improvements to NFS Client:** Previously, it was not possible to mount spaces via NFS when the spaces were located on EditShare expansion servers. This has now been resolved. Also when the NFS client was scanning for spaces to mount, it could take more than 10 seconds to get information about available media spaces. The NFS client now displays a message indicating it is gathering the media space information.

Fixed in Flow Version 2.2.0.0

The following Flow limitations were fixed in version 2.2:

- If you added a marker to a Group clip, the first clip in the group might have opened in Flow Browse. This has been fixed.
- You might not have been able to search in Flow Browse for a black marker. This has been fixed.
- When you ingested MXF 1:1 footage in Flow, the audio might not have been embedded. This has been fixed.
- If you created a custom metadata field that needed a True/False assignment and did not assign it a value, then used the template in Flow and dragged the file into your Avid editing application, the value might have appeared empty rather than False. Custom metadata fields no longer appear empty.

- Clip sizes in Flow Browse might have been inaccurate because they did not include the size of the audio. This has been fixed.
- When two users logged into different Flow workstations, and opened the same sequence, if one user made a change to the sequence, the other user's sequence might not have updated. This has been fixed.
- If you tried to ingest a DNxHD file with Avid Rewrap, the ingest might have failed. This has been fixed.

Fixed in Ark Version 2.2.0.0

The following Ark limitations were fixed in version 2.2:

- **Backups of Ark Watch Groups.** In previous versions of Ark, Watch Groups created on expansion servers did not result in any backups being run on the expansion server Media Spaces. In addition, if you had an expansion server, any Watch Groups created on the master server might have resulted in spaces also getting backed up from the expansion server. Both of these issues have been resolved.
- **Improve display in the Manage Ark Tape tab:** In the past, when there were many tape pools and many backup runs on each pool, it might take up to tens of minutes for Ark's Manage Tape tab to display information about all the pools and what backup runs were completed in each pool. This has been fixed by revising the MySQL query used to get the information about Tape Pools. Now the information should display in the Ark UI in just a few seconds, even when there are hundreds of pools and thousands of backup jobs run on the pools.
- **Fix sorting of Tape Pool names:** Previously, in the Manage Ark Tape tab, tape pools were not always sorted alphabetically, making it difficult to find a tape pool to modify. Tape pools are now sorted properly.
- **Improve accuracy of estimated time for backup and restore:** Previously, the estimated time for a backup or restore job could vary considerably as a job sped up or slowed down. Now the estimate is made by a "rolling average" which should provide a more accurate and consistent estimate of the time remaining.
- **Prevent Ark restore jobs from failing if a file cannot be restored:** Previously, if just one file could not be restored in a restoration job – for instance, due to damage on the LTO tape or due to a misread – the entire job would be canceled and no files would get restored. The behavior of Ark has now been modified to allow the job to continue and to send a warning at the completion of the job listing any file or files that could not be

restored. Sometimes, cleaning the LTO drive tape heads can resolve the problem and allow the missing file to be restored.

- **Optimize swapping tapes when running simultaneous backups:** Previously, if you were backing up multiple Media Spaces to a single tape pool and you had more than one LTO tape drive, Ark might assign the backup job for one Media Space to the first LTO drive and the second Media Space to the second LTO drive. As a consequence, Ark might have needlessly removed a tape from "Drive A" and put it into "Drive B" when the backup began on the second Media Space. Also, once Drive B was assigned a backup job, it could not be used for a different backup or restore job that would involve a different tape pool. The logic of assigning jobs to LTO drives has been significantly improved.

Fixed in Version 6.1.3.4

- Previously, Ark set the "block size" for LTO drives with each Ark Tape server boot up or each restart of the Ark Tape service. The block size is now set each time a tape is loaded. This should fix reported issues with tape labels sometimes not being written or read properly, and with backups and restorations sometimes failing without a restart of Ark.
- On Ark Tape servers where a DNS address was slow to respond, certain Ark processes could timeout. This has been fixed.
- Improved Unicode Compatibility. Until this release, the Ark User Interface might have occasionally failed to show the details for some running and completed jobs because of "unicode incompatibilties". This has been resolved.
- In previous Ark releases, if an Ark job was scheduled more than once per day – for example, every hour or every 20 minutes – the list of queued jobs might have failed to display properly. This has been resolved.
- Backups and restorations might have previously failed on Ark servers that were configured with multiple IP addresses. This has been resolved.

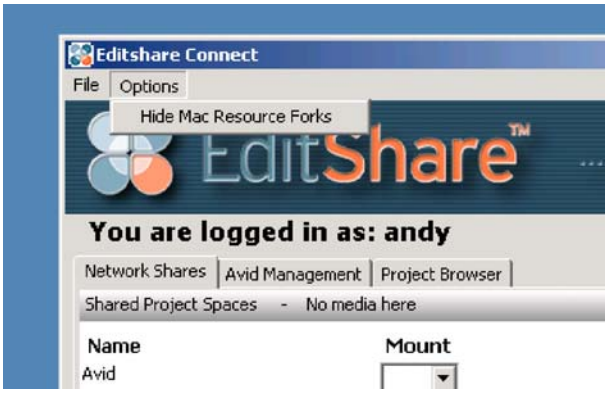
New in Version 6.1.3.3

The following new features were added in version 6.1.3.3:

- You can now back up Flow proxy files and Flow database files to Ark destinations. Contact EditShare Technical Support for help configuring this new option.

  In an upcoming release there will be an easier way to configure these backups through the Ark user interface but for now, if you are interested in using this feature, it must be configured manually.

- You can now Hide Mac resource fork files on Windows machines. The presence of Mac resource forks in Media and Project Spaces has been reported to cause issues for some Windows applications, particularly for Avid Media Composer 6 where the Avid Phrase Find plug-in can hang if it sees the Mac resource fork files. This issue has been resolved by providing a new option in Windows EditShare Connect to "Hide Mac Resource Forks". You should not enable the "Hide Mac Resource Forks" feature unless you use a mixture of Windows and Mac Avid applications at your site, and unless those applications share the same spaces.



Fixed in Version 6.1.3.3

The following limitations were fixed in version 6.1.3.3:

- Ark no longer allows you to back up a Media Space in Maintenance or Unshare Mode since doing so leads to incorrect files in the Flow Database.
- Previously, if you used Media Composer 6.x with Avid Style spaces, the Avid application might have crashed with "Segmentation Faults" if you switched from the Avid Application to other applications or to your desktop. This has been fixed.
- In Flow Browse, if you browsed to a mounted Media Space in the Local tab, duplicate clip entries might have appeared in the database. The v2.1.3.2 Flow clients fix this problem.
- Ark was failing if you tried to run multiple simultaneous Backup and Restore jobs. This has now been resolved. Ark should be able to process multiple jobs simultaneously, so long as they don't require tapes from the same pool.
- A new version of the EditShare network configurator ensures that proper network performance parameters are getting set according to the type of network card in the server – 1 Gigabit or 10 Gigabit – and according to whether bonding and/or bridging is enabled.
- Fixes to Ark Check Jobs – When running Ark Check Jobs, you will no longer see a progress bar that looks as if the job is running, nor will you get emails for each Media Space that was checked. You will only see a pop up box and receive an email – both providing a summary of the results of the Check Job.
- If Avid is already running before EditShare Connect is launched, EditShare Connect was designed to warn you and not proceed with mounting spaces. However, in previous versions of EditShare Connect, the check for whether or not Avid was already running was too sensitive. Even if only the AvidBinIndexer was running and not the Avid application itself, EditShare Connect would say that "Your Avid application is already running". This has been resolved.
- Previously, you might have gotten erroneous warnings in the Daily Health Report about RAID Verification not having occurred in the last week on various hardware RAIDs, when in fact verification had been occurring. This has been fixed.
- Previously, Ark Tape could take a long time to respond due to DNS lookups. This issue has been addressed and Ark Tape performance will not be affected by slow or incorrect DNS information.

New in Version 6.1.3.2

This version includes new EditShare Connect software for Windows and Mac that provides the following:

- Support for Avid-Style Media Spaces on Avid Media Composer v6 and earlier with a simplified setup process on both platforms.
- Avid Launcher's previous benefits remain: it lets you capture files larger than two gigabytes into your Avid application, and it lets you see Media Space names instead of drive letters in Avid.
- On Windows, an easier way to update to new Avid application releases. After you add the Avid application to the Avid Launcher list in EditShare Connect for the first time, you can now freely update your Avid application without having to make any changes to EditShare Connect.

See the following sections:

- "Enabling Avid-Style Media Spaces (Mac Only)" on page 54
- "Configuring Avid Launcher and Enabling Avid-Style Media Spaces (Windows Only)" on page 56

Enabling Avid-Style Media Spaces (Mac Only)

First-time setup of EditShare Connect on a Mac has changed to support Avid-Style Media Spaces with Avid Media Composer version 6.0.x.

If you had previously set up any Mac workstations to support Avid-Style Media Spaces with the Application Enhancer (from EditShare v6.0.5.13 to v6.0.5.15), you need to uninstall it before you install the new EditShare Connect.

The first time you enable Avid-Style Media Spaces in the new version of EditShare Connect on a Mac, a message box opens stating that you need to change the ownership of certain directories. You need to log in, enable Avid-Style, and then type the Administrator password for your Mac.

See the following sections:

- "Uninstalling Application Enhancer" on page 55
- "Installing and Configuring the New EditShare Connect for Avid-Style" on page 55

Uninstalling Application Enhancer

To uninstall the Application Enhancer from a Mac Workstation, do the following.

TASK

1. Double-click the X icon in the EditShare Connect DMG provided with this version of EditShare. The uninstaller asks if you use Application Enhancer for something other than EditShare Connect.
2. If you don't use Application Enhancer for anything other than EditShare Connect, click No to remove it completely. Click Yes to keep the Application Enhancer on your computer; only the files used for EditShare Connect are uninstalled.
3. Restart your Mac.

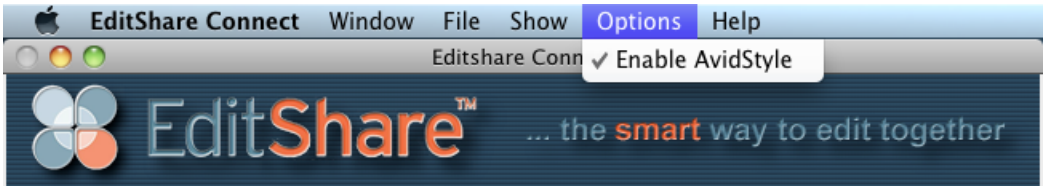
Installing and Configuring the New EditShare Connect for Avid-Style

NOTE: *Any time you change permissions on your files by, for example, running Repair Permissions or installing new Avid software, you might need to repeat the following procedure.*

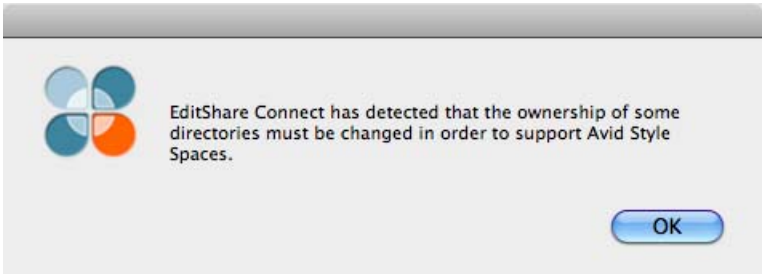
To install and configure EditShare Connect the first time on a Mac (for use with Avid-Style Media Spaces), do the following.

TASK

1. Make sure the Application Enhancer is uninstalled it. See "Uninstalling Application Enhancer" on page 55.
2. Install EditShare Connect and log in.
3. Select Options > Enable AvidStyle.

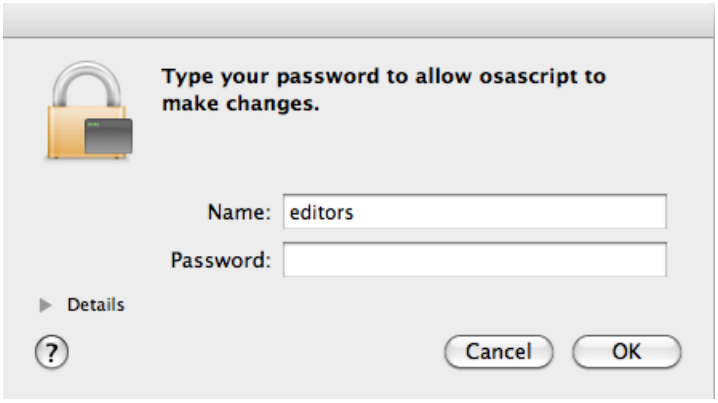


A message box opens, stating that ownership of files has changed.


EditShare Connect has detected that the ownership of some directories must be changed in order to support Avid Style Spaces.
OK

4. Click OK.

   An OS X authentication dialog box opens.



5. Type the username and password of an OS X Administrator user, and then click OK.

   NOTE: *Make sure you type the password for your Mac system. Do not type your EditShare Administrator password. At production facilities, most Mac users are already Administrators. At educational facilities, users might not have administrator privileges.*

   You can now use your Avid-Style Media Spaces.

Configuring Avid Launcher and Enabling Avid-Style Media Spaces (Windows Only)

With this new release, EditShare has changed the way the Avid Launcher works and therefore how Avid-Style is enabled on Windows systems. Enabling and disabling Avid-Style for Windows and using the Avid Launcher are now easier and less prone to configuration errors. You also no longer need to disable Avid-Style every time you upgrade your Avid editing application.

If you had previously enabled Avid-Style on EditShare v6.1.3.1 or earlier, you need to undo your previous configuration and then configure the new version of EditShare Connect.

To use EditShare Connect with Avid-Style, do the following.

See the following sections:

- "Unconfiguring Your Earlier EditShare Connect" on page 57
- "Installing and Configuring the New EditShare Connect" on page 57

Unconfiguring Your Earlier EditShare Connect

To undo your previous configuration and uninstall EditShare Connect, do the following:

TASK

1. Before you install the new version of EditShare Connect, log into the Windows workstation as the user you were logged in as when you set up the Avid Launcher.

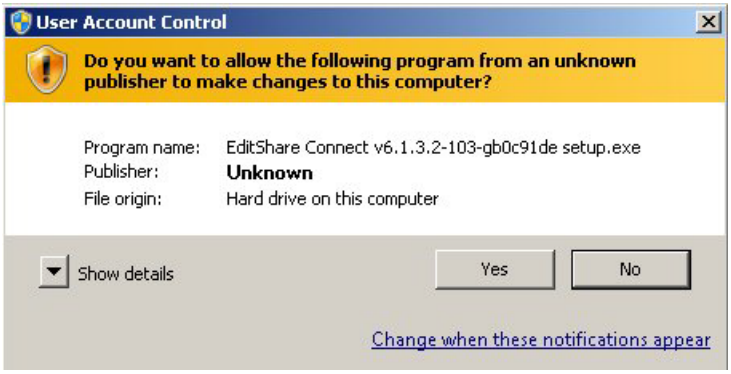
   For most users, this is as Administrator on the workstation.
2. Start EditShare Connect and log in.
3. Click the Avid Management tab.
4. Remove the Avid application that you previously configured to use the Avid Launcher by selecting it and then clicking the Remove Avid Application button. Repeat until no more Avid applications are listed.

NOTE: *In this list, you see only the applications you added to the Avid Launcher while logged in under the same user name you are logged in as now. If you added the Avid application to the Avid Launcher as another user, you need to log in as that user to remove it.*

5. Deselect Enable EditShare Avid Launcher.
6. Log out of EditShare Connect.

Installing and Configuring the New EditShare Connect

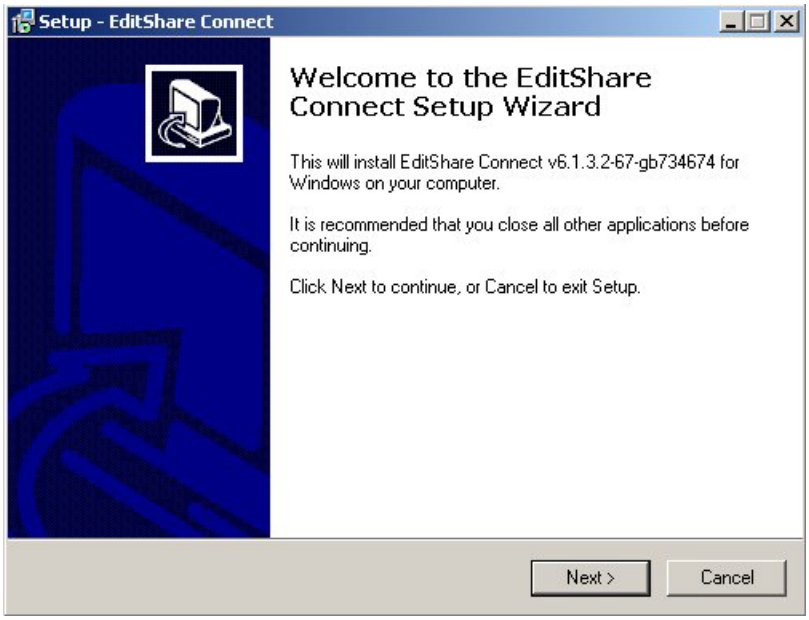
NOTE: *If you have User Account Control enabled on your system, a warning message box might open at various stages in the procedure. One example is shown in the following illustration. You can safely click Yes.*


User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: EditShare Connect v6.1.3.2-103-gb0c91de setup.exe
Publisher: Unknown
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

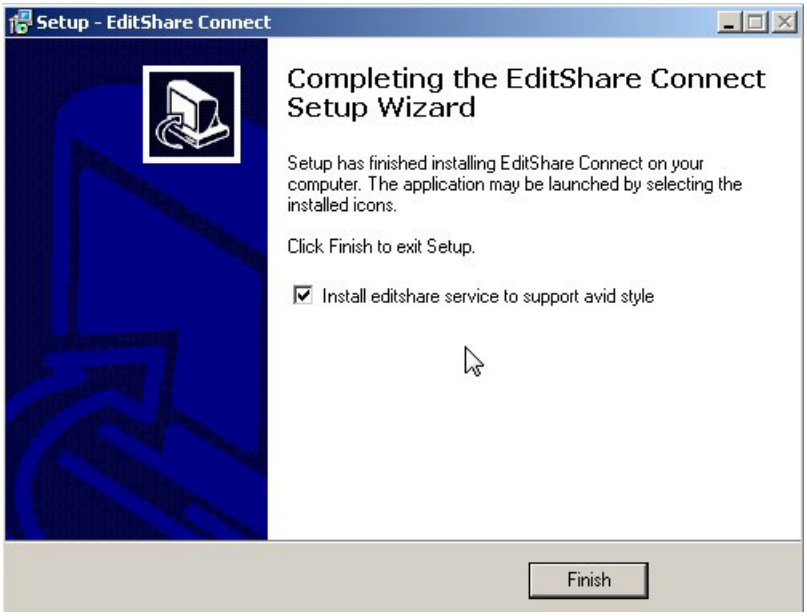
To install and configure the new version of EditShare Connect, do the following.

TASK

1. Install the version of EditShare Connect that came with this release (v6.1.3.2). The EditShare Connect Setup Wizard opens.

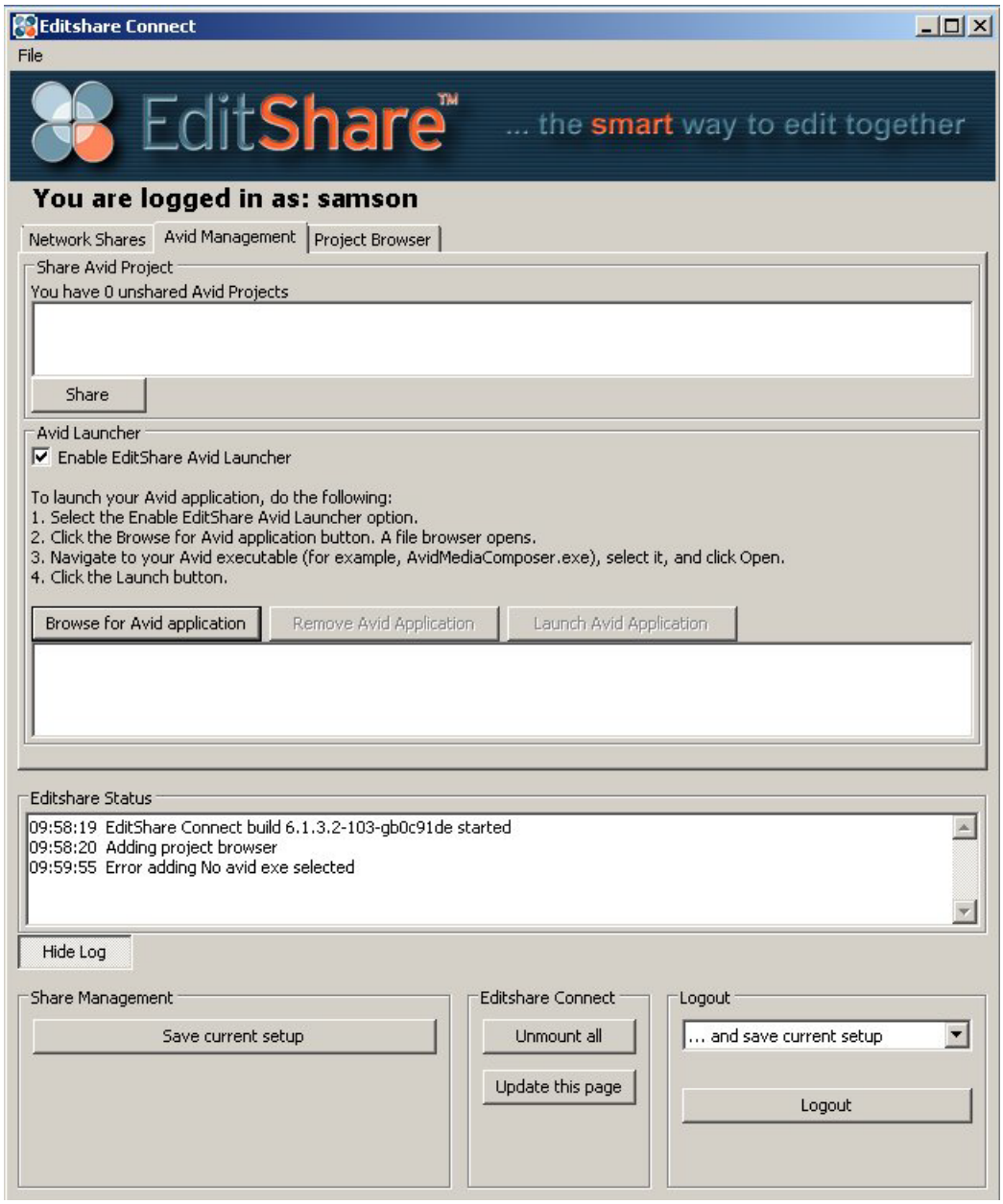

Setup - EditShare Connect
Welcome to the EditShare Connect Setup Wizard
This will install EditShare Connect v6.1.3.2-67-gb734674 for Windows on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

2. Click Next


Setup - EditShare Connect
Completing the EditShare Connect Setup Wizard
Setup has finished installing EditShare Connect on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Install editshare service to support avid style
Finish

3. Select the "Install editshare service to support avid style" option.
4. Click Finish.

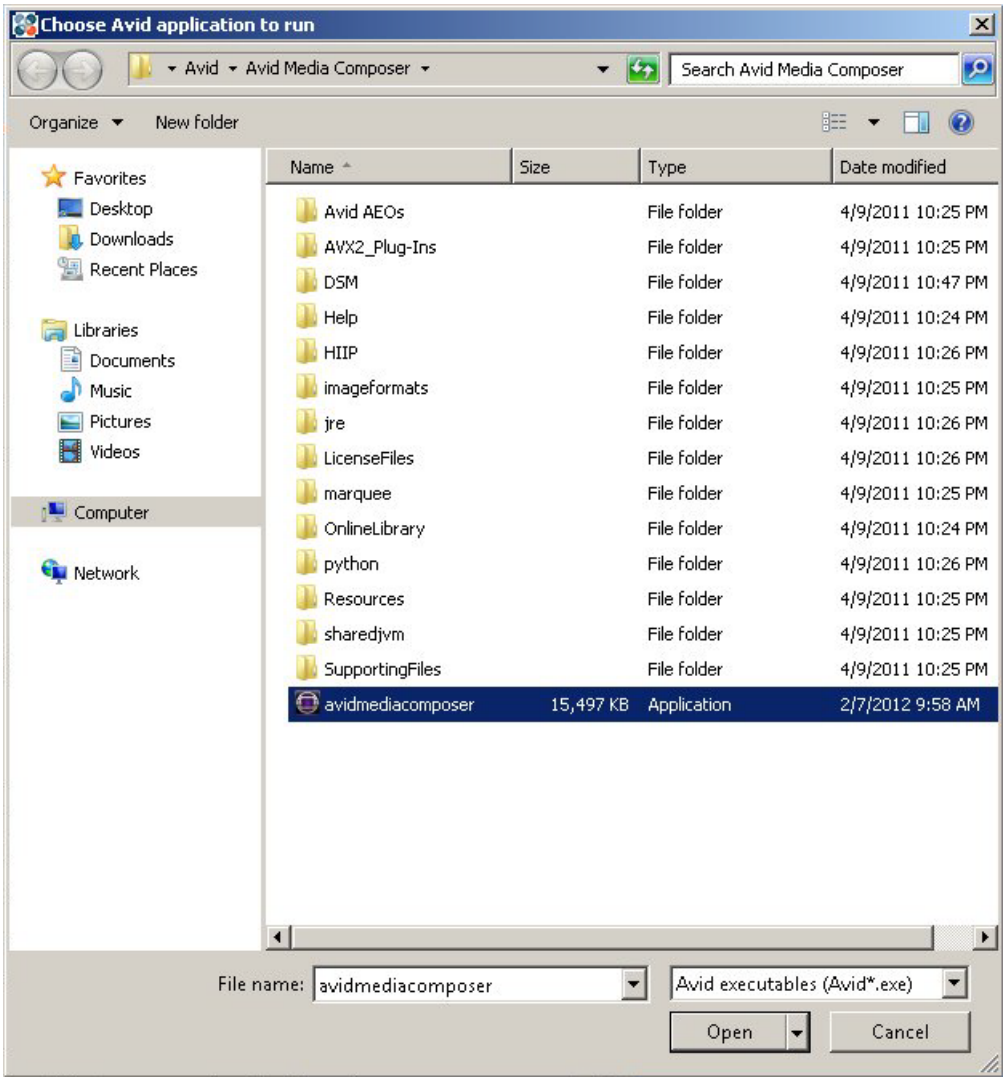
5. Start EditShare Connect, log in, and click the Avid Management tab.


Editshare Connect
File
EditShare™
... the smart way to edit together
You are logged in as: samson
Network Shares
Avid Management
Project Browser
Share Avid Project
You have 0 unshared Avid Projects
Share
Avid Launcher
Enable EditShare Avid Launcher
To launch your Avid application, do the following:
1. Select the Enable EditShare Avid Launcher option.
2. Click the Browse for Avid application button. A file browser opens.
3. Navigate to your Avid executable (for example, AvidMediaComposer.exe), select it, and click Open.
4. Click the Launch button.
Browse for Avid application
Remove Avid Application
Launch Avid Application
Editshare Status
09:58:19 EditShare Connect build 6.1.3.2-103-gb0c91de started
09:58:20 Adding project browser
09:59:55 Error adding No avid exe selected
Hide Log
Share Management
Save current setup
Editshare Connect
Unmount all
Update this page
Logout
... and save current setup
Logout

6. Select Enable EditShare Avid Launcher.

7. Click Browse for Avid Application

8. Select the Avid application you want Avid Launcher to start and click Open.



You are finished with the configuration.

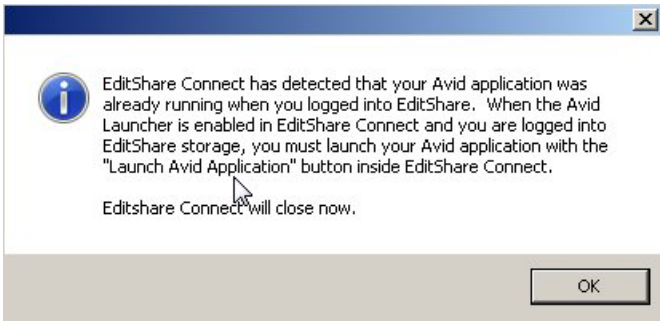
9. To use Avid-Style Media Spaces or the Avid Launcher, do the following:
   a Make sure your Avid application is closed.
   b Log into EditShare Connect.
   c Mount the Media Spaces you want.

   NOTE: *You can mount an Avid MXF Media Space and then start Avid with the Avid Launcher button. Use of Avid Launcher is not reserved only for Avid-Style.*

Launch Avid Application

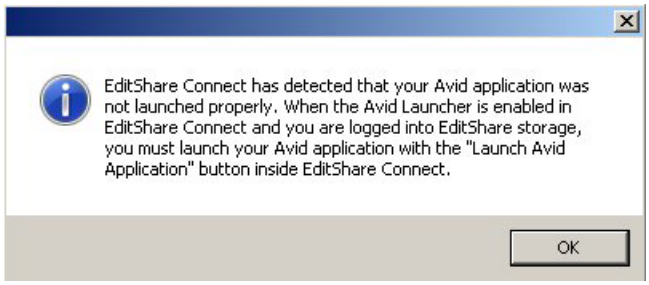
10. To start your Avid application, select the application you want in the Avid Launcher list, and then click the Launch Application button.

    NOTE: *If you start your Avid application before you log into EditShare Connect, a message box opens prompting you to close your Avid application and restart it using the Avid Launcher button.*


EditShare Connect has detected that your Avid application was already running when you logged into EditShare. When the Avid Launcher is enabled in EditShare Connect and you are logged into EditShare storage, you must launch your Avid application with the "Launch Avid Application" button inside EditShare Connect.
Editshare Connect will close now.
OK

Click OK, and then start EditShare Connect.

Similarly, if you try to start Avid by double-clicking the Avid icon, a message box opens.


EditShare Connect has detected that your Avid application was not launched properly. When the Avid Launcher is enabled in EditShare Connect and you are logged into EditShare storage, you must launch your Avid application with the "Launch Avid Application" button inside EditShare Connect.
OK

Click OK, and then click the Launch Avid Application button.

Fixed in Version 6.1.3.2

The following limitations were fixed:

- (Mac Only) This version includes Flow v2.1.3.2, which resolves client display issues in OS X Lion. Proxy playback in Flow Browse might have played at very high speed after you played it the first time or stopped playback and restarted it.
- If you had many tape pools and tapes in an Ark Tape backup, the Ark Tape Management tab might have taken a long time to open. This has been fixed.

- If you started EditShare Manager in an ESA group that didn't have all of its servers, EditShare Manager might have opened a message box telling you that some of your servers were not accessible without providing additional information. This correct information is now provided.
- If you scheduled Ark jobs to run with hourly or greater frequency, the Ark user interface might not have displayed the jobs correctly. This issue has been addressed.
- If you had many files backed up in EditShare Ark, it might have been difficult to view them. You can now page through your list of backups and click the Next or Previous button to move forward or back through the list.
- Several changes have been made to EditShare Ark that speed up operation.

Fixed in Version 6.1.3.1

The following limitations were fixed:

- If you had many backup destinations in EditShare Ark, you might not have been able to access the Add or Cancel buttons. This has been fixed.
- In Ark v2.1.3.0, if you enabled Geevs automatic archiving to Ark Disk, for each start and stop of a Geevs recording you might have seen a new entry in Completed Jobs detailing which files were backed up after that recording. This could have resulted in hundreds of entries in Completed Jobs for a single day. Now all information about what gets backed up during automatic archiving is consolidated into a single Completed Jobs entry per calendar day.
- Automatic backup from Geevs to Ark Disk might have canceled jobs if a new backup request was received before the current request had been completed. This has been fixed.
- Emailing a large amount of text from one of the Ark Contents windows might have failed. This has been fixed. A large amount of text now arrives as an attachment to the email.
- If you updated to v6.1.3.0 from an earlier version and then you removed a preexisting network bridge, your EditShare IP Configurator might not have functioned correctly. This has been fixed.
- If you updated to v6.1.3.0, the kernel update might not have installed correctly on some machines, particularly on Flow Ingest servers. This has been fixed.

- After you updated your Flow Ingest server to v6.1.3.0, a DVS card might not have detected, making it impossible for you to preview or capture from SDI sources. This is fixed after you update to version 6.1.3.1 and run the Role Assistant on your Flow Ingest server.
- After you updated to v6.1.3.0, you might have had difficulties applying new email preferences because a configuration file was missing. This has been fixed.
- After updating your system to v6.1.3.0 with the offline updater, your Ark system might have reported incorrect LTO tape sizes. This has been fixed.

New in Version 6.1.3.0

The following features were added in version 6.1.3.0:

- The Ark user interface has been completely redesigned to provide many improvements in performance, feedback, and ease of use. See "New Ark User Interface" on page 66.
- Ark now supports additional tape libraries. Supported libraries include the following:
  - Quantum Superloader 3
  - Quantum Scalar i40
  - Quantum Scalar i80
  - Spectra Logic Spectra T50e
  - PowerVault TL4000 Tape Autoloader
- When you set up a tape library for the first time, Ark Assistant now queries you for the IP address of the library's tape management interface as well as the tape library type and other details.

  If you have already been running Ark with one or more tape libraries, you need to do the following to enable the new functionality:

  a) Connect the Ethernet interface of the tape library to your network, if it isn't already connected, and give it an IP address on the same network as your Ark Tape server.

  b) Log into your tape library interface on the Ark Tape server using Firefox to make sure you know your username and password.

  c) Start Ark Assistant on your Ark Tape server.

d) Select Ark Tape Configuration > Configure Tape Libraries, and proceed through the wizard until you arrive at the dialog box that asks you select a tape library.

e) Select your library and click OK.

f) In the next dialog boxes, type the IP address of the tape library, your library username, and the library password (if required).

NOTE: *You can set up more than one tape library.*

If you need to restart your tape library, click the Ark Tape Management bar in Ark and click the Reset Libraries button to remotely restart the tape library from the Ark user interface.

In certain circumstances Ark Tape automatically restarts the tape library to resolve communication issues.

NOTE: *See "Configuring Tape Libraries" in the* ***EditShare Ark Setup and User's Guide*** *for more information.*

- A new EditShare Network Configuration Tool offers you more flexibility to configure your server's network interfaces. Some or all physical network interfaces can be configured individually as usual with IP details, as they were in Manual mode in the previous Network Configurator.

  The new Network Configurator offers two additional options for setting up networking: Bridge mode and Bond mode.

  The redesigned Network Configurator lets you bond multiple same-speed interfaces on your EditShare server. Bonding, where two or more physical links are teamed to appear as one, lets you saturate multiple physical connections between a given EditShare server and switch or VLAN. This allows you to get more total bandwidth to multiple client machines by spreading the load over the interfaces in the bond.

  The Bridge mode feature (formerly called Switch mode) now lets you create one or more Ethernet bridges out of some or all of the physical interfaces in an EditShare server, whether or not they are of the same speed. This feature allows you to utilize switch mode in servers with 10 GB interfaces, which previously was not supported.

  For details, see "Configuring EditShare Network Settings" on page 72.

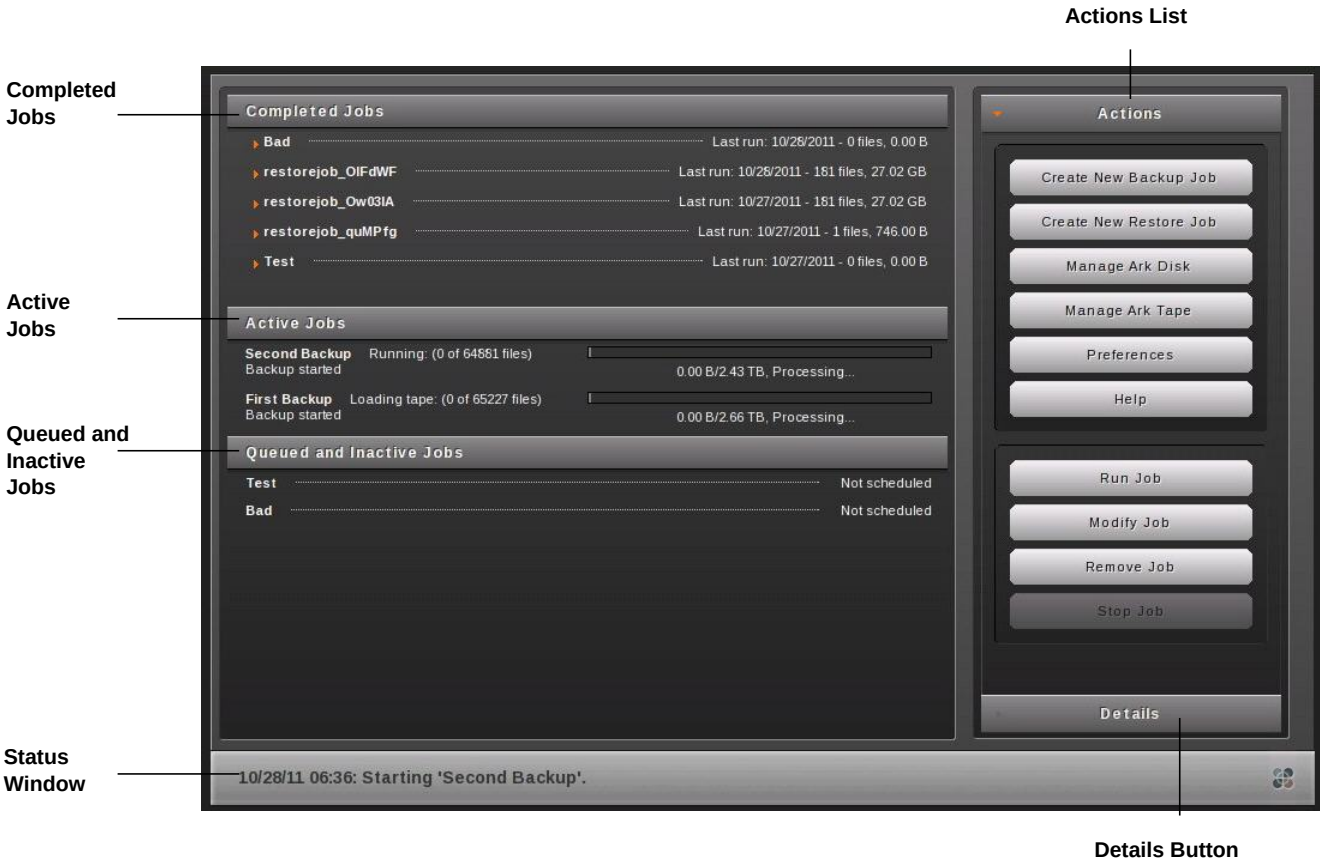
- EditShare now ships two models of UPS. Certain battery-backup units use a standard A-to-B USB data cable to connect to the EditShare, while other models use a non-standard USB-to-RJ45 (Ethernet) cable that is included with the power supply. For details, see "Connecting the UPS" in the *EditShare Administrator's Guide*.

- This release supports Flow version 2.1.3.0. See "New in Flow Version 2.1.3.0" on page 81.
- The way you initially enable Avid-Style sharing on a Mac has changed. The Application Enhancer has been removed and is no longer necessary for Avid-Style on a Mac. You must uninstall the Application Enhancer using the procedure in "Setting up Avid-Style on a Mac System" on page 82 if your Mac was configured for Avid-Style in EditShare v6.0.5.15 or earlier.

New Ark User Interface

Ark v2.1.3.0 represents a significant overhaul of all Ark functionality. The goal was to make Ark much more reliable and user friendly, to provide the best possible information about what your Ark system is doing, and to communicate clear messages if errors occur.

The following figure shows the new Ark user interface.



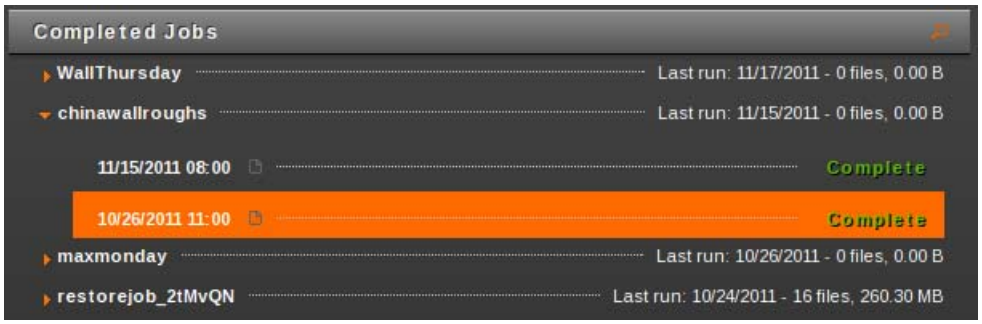
On the main Ark page, you can get a quick overview of what your Ark system is currently doing, what it is scheduled to do, and what it has recently completed. Most of the time, this is the only page of the Ark interface that you will need to look at. The new Overview page is divided into the following sections:

- Completed Jobs
- Active Jobs
- Queued and Inactive Jobs
- The Actions list, which features buttons to start jobs running, give you more information, or take you to other areas of the application
- The Details button
- The Status window

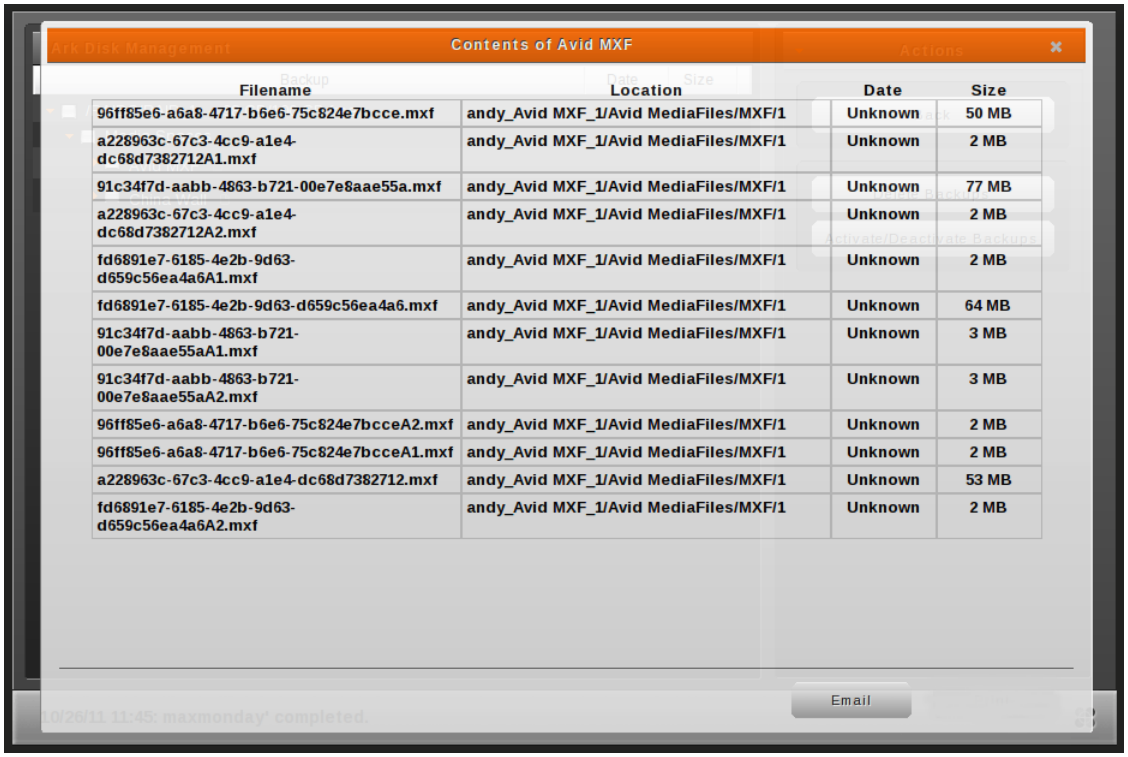
The Jobs sections have the following functions:

- **Completed jobs**. This section shows each completed Ark Job in a nested tree view for each job. In the default collapsed view, you see the statistics for the last time the job ran – whether the job succeeded or had an error, how many files were backed up or restored, and how many GBs of data were transferred.

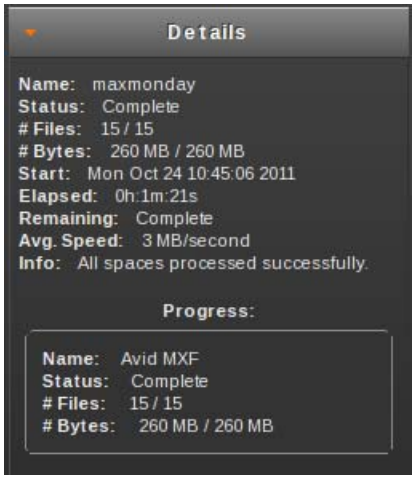
  If you want to view information about previous runs of the job, click on the orange triangular opener to see all runs of the job.



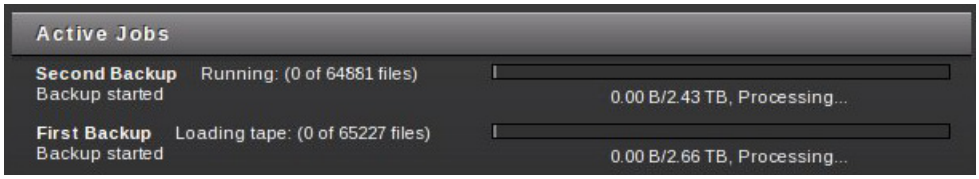
Clicking the Contents icon next to a completed job gives you a list of all the files that were backed up during that run of the job.



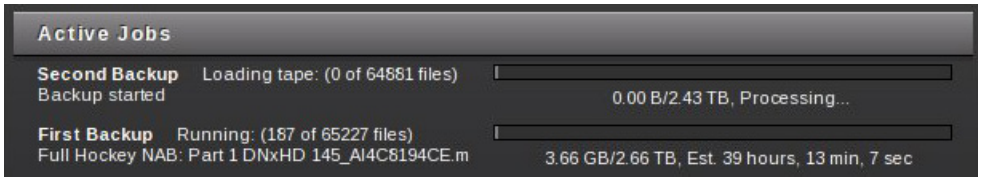
If you want more details about a completed job, click the Details button on the right. This is particularly useful for displaying details about any errors that were encountered, or for displaying the individual file and GB counts for each Media Space that was backed up or restored in a single Ark Job.



- **Active jobs**. This section shows you information about Ark Backup or Restore Jobs that are currently running. Each Ark Job that is running has its own section.


Active Jobs
Second Backup Running: (0 of 64881 files)
Backup started
0.00 B/2.43 TB, Processing...
First Backup Loading tape: (0 of 65227 files)
Backup started
0.00 B/2.66 TB, Processing...

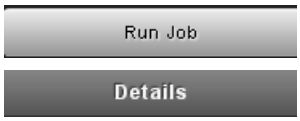
If the job is a tape job, you see information about what the tape library is doing (loading a tape, unloading a tape, running). You see which Media Space and which file is currently being processed. You see a status display indicating how many files and how many GB of data have been transferred so far, what is the estimated remaining time to complete the job. You also see a progress bar showing how much of the job has been completed so far.


Active Jobs
Second Backup Loading tape: (0 of 64881 files)
Backup started
0.00 B/2.43 TB, Processing...
First Backup Running: (187 of 65227 files)
Full Hockey NAB: Part 1 DNxHD 145_AI4C8194CE.m
3.66 GB/2.66 TB, Est. 39 hours, 13 min, 7 sec

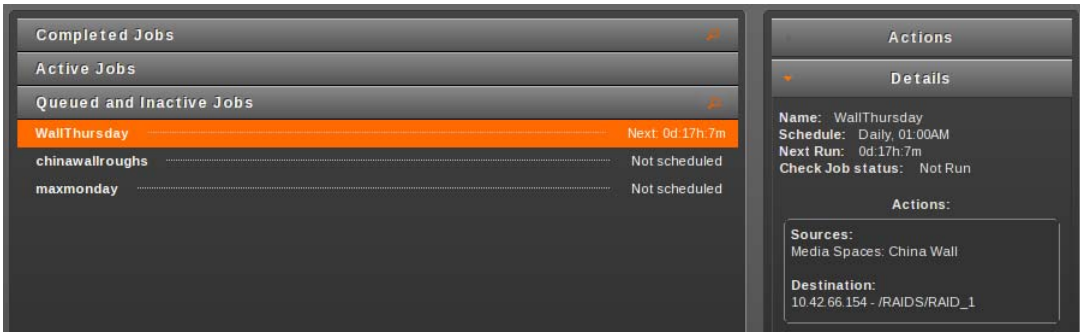
NOTE: *If you are running an Ark Tape job that is using spooling, the Number of Files increases only while the job is spooling and the Amount of GB Written increases only while data is actually being written to LTO tape.*

If you want more details about an Active job, click the Details button on the right.

- **Queued and Inactive jobs**. This section displays a list of all jobs that are not currently running. If a job is scheduled to start at a specific time in the future, you see information about when the job is next scheduled and a warning if Ark is predicting that some or all of the job might fail (for example, because there isn't enough space at the destination).



If you select a Job, you can start the job manually by clicking Run Job. If you click Details, you can see more information about the job. For example, if it is a job that will back up many Media Spaces together, in the Details display you can see information about each Media Space.



If a job is currently running, it is not listed in this section. Once the job has completed, it appears here again, where you can select it and run it again.

The *EditShare Ark Setup and User's Guide* documents the changes in full. The following table outlines the major differences from the previous versions (v2.0.x and earlier).

New Feature	Description
Deleting Backups	The Remove Backups button in the Restore tab is now the Delete Backup button in the Ark Disk Management Actions list.
Details Area	You can now view the information formerly listed in the Status window by clicking the Details bar. Status information and other details now display in the Details area.
Display of Jobs	Jobs are now listed alphabetically in three categories: • Completed • Active • Queued and Inactive
Enable Debug Messages	You can select Enable Debug Messages in the Message Log window if you have a problem to troubleshoot with EditShare Technical Support.
Job Contents	You can now click an icon and view a list of the files in a particular backup job or all files that have been backed up from a particular Media Space, on Ark Disk and Ark Tape.
Logs Button	The Details area now includes a Logs button. You can click it to display the Message Log window, which includes a log of messages and progress statements.
Manage Ark Disk	The Manage Ark Disk button in the right panel lets you view and manage all your material on Ark Disk. When you click the button, the Ark Disk Management area opens.
Manage Ark Tape	The Manage Ark Tape button in the right panel lets you add tape pools and tapes, and view and manage all your material on Ark Tape. When you click the button, the Ark Tape Management area opens.
Media Space Type	When you select a source for a backup, you can now specify what type of Media Space you want as your source.
Media Space Watch	When you select backup sources, you can select Media Space Watch as the type of Media Space. This lets you select all Media Spaces of the same type, for example, all Avid MXF Media Spaces.

New Feature	Description
Multiple Tape Drives	If your tape library has multiple tape drives, you can run more than one tape backup at once. This allows you to back up or restore more material in a given time period. Ark currently supports up to a maximum of two tape drives in one library. Support for more than two is planned for a future release.
Notifications	You are now provided with notifications of various kinds, including confirmations and error messages.
Preferences Button	Click to open the Preferences window, where you can check your jobs on a schedule.
Progress Bars	A job now displays a progress bar and current status while it runs.
Restore	You can now select the specific tape poor or RAID you want to restore from.
Scan Button	The Scan button in the Tape tab is now the Scan Tape Inventory button in the Ark Tape Management Actions list.
Searching	You can now search for the name of any completed or queued Ark job by clicking the Magnifying Glass icon and then typing in the Search text box.
Stopping a Job	The Pause/Resume button has been replaced by the Stop Job bar. When you select a job that is running, you can click the Stop Job bar to stop it.
Tabs replaced	The Backup, Restore, Tape, and Help tabs have been replaced by buttons in the right panel.
Tape Library Restart	You can now restart a tape library from within the Ark application once you have configured the library from within Ark Assistant.
Terminology change	A job 'Item' is now a job 'Action.'

Configuring EditShare Network Settings

A new EditShare Network Configuration Tool offers you more flexibility to configure your server's network interfaces. Some or all physical network interfaces can be configured individually as usual with IP details, as they were in Manual mode in the previous Network Configurator.

The new Network Configurator offers two additional options for setting up networking: Bridge mode and Bond mode.

The redesigned Network Configurator lets you bond multiple same-speed interfaces on your EditShare server. Bonding, where two or more physical links are teamed to appear as one, lets you saturate multiple physical connections between a given EditShare server and switch or VLAN. This allows you to get more total bandwidth to multiple client machines by spreading the load over the interfaces in the bond.

The Bridge mode feature (formerly called Switch mode) now lets you create one or more Ethernet bridges out of some or all of the physical interfaces in an EditShare server, whether or not they are of the same speed. This feature allows you to utilize switch mode in servers with 10 GB interfaces, which previously was not supported.

It is important to understand the difference between Bond mode and Bridge mode. Bond mode, also called link aggregation, teams multiple physical interfaces between an EditShare server and a single switch or VLAN. Because multiple physical interfaces in the bond are treated as one, a loop is not formed in the network. Bridge mode, in contrast, allows you to connect multiple physical networks (made up of different switches, VLANs, or individual workstations) into one logical network. All the interfaces you put into a bridge behave as if they themselves are a single Ethernet switch.

If a physical network interface is not part of a bridge or a bond, it is configured independently, just as it was in Manual mode in the previous Network Configurator. The functionality is equivalent to Manual mode. For more information, see “Individual Interfaces” and “Configuring Individual Interfaces” in the *EditShare Administrator’s Guide*.

Reset Interfaces

The Reset Interfaces button in the Interfaces tab removes all bridges and bonds and returns all physical interfaces to be configured independently.

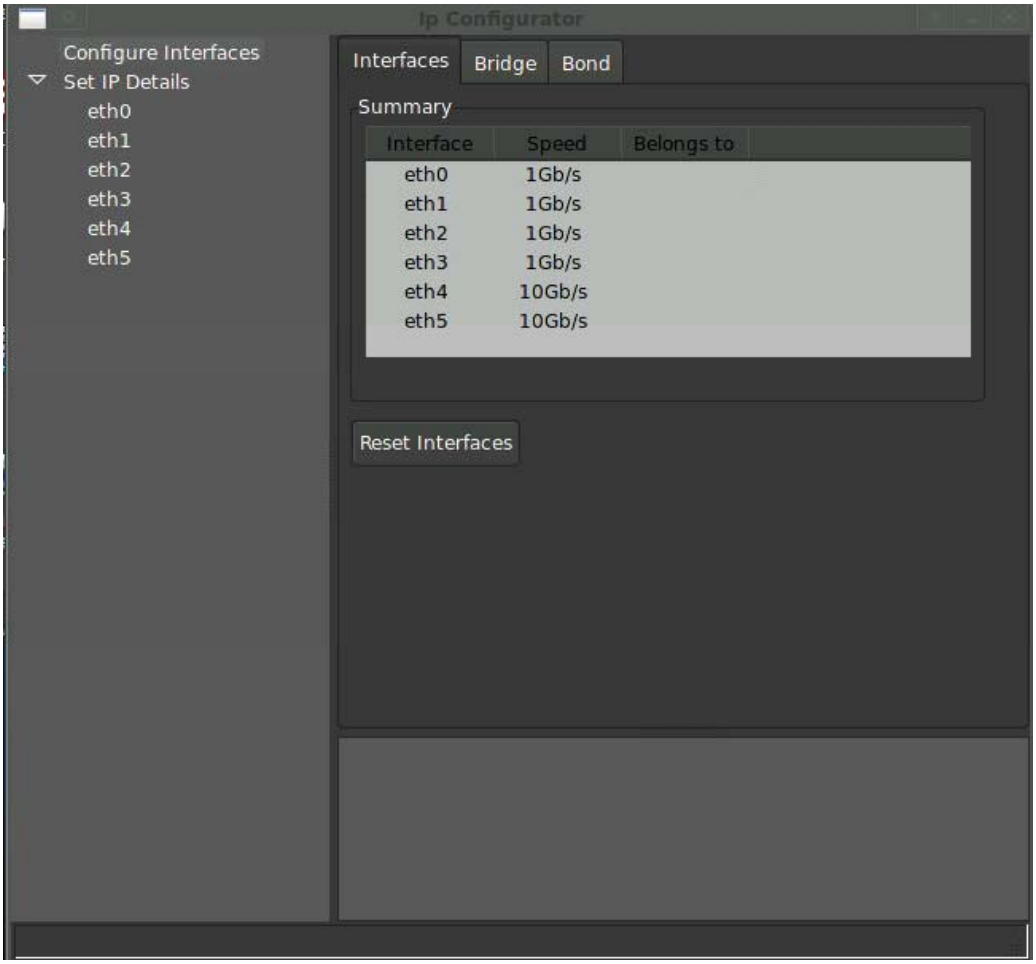
See the following sections.

Creating a Network Bridge

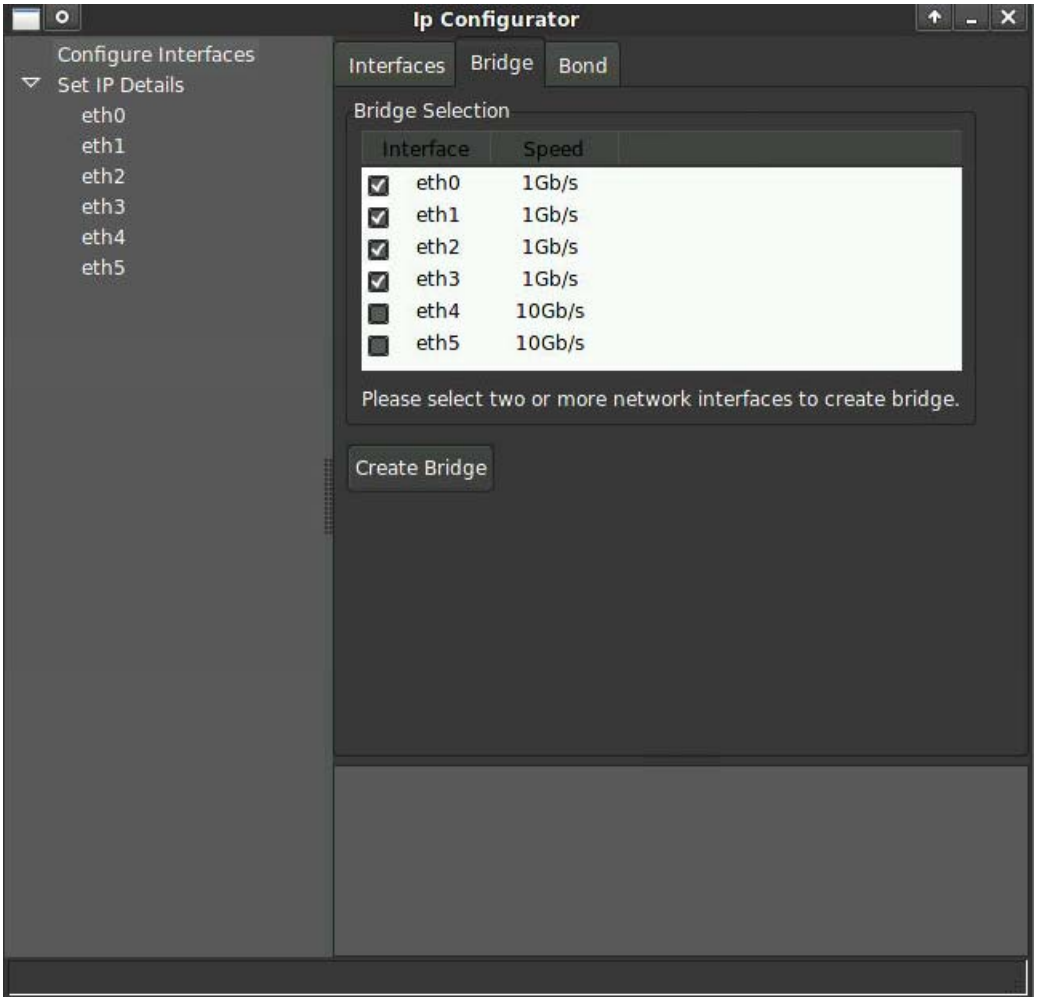
To create one or more bridges, do the following.

TASK

1. Open the EditShare Control Panel and double-click Network Config.
   The IP Configurator opens to the Interfaces tab.



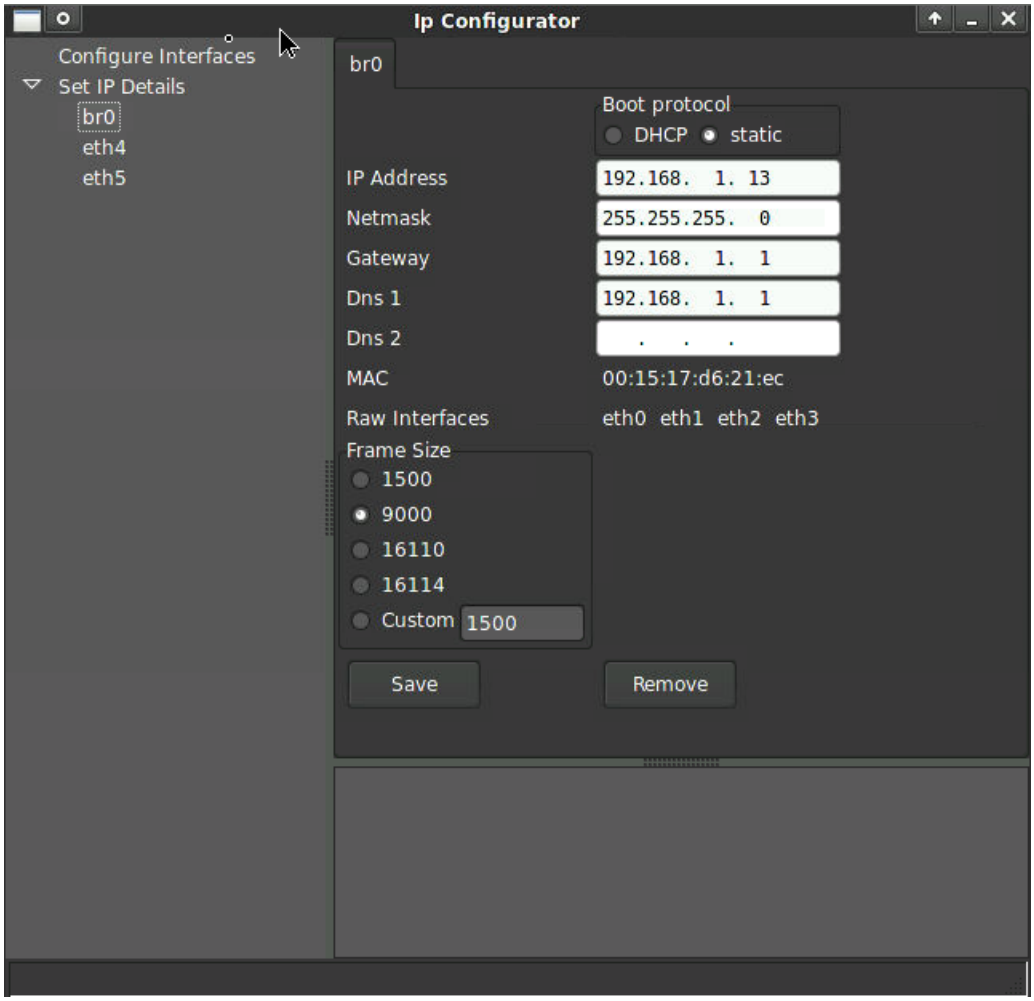
2. Click the Bridge tab.



3. Select the interfaces you want to bridge, and then click Create Bridge.

   The interfaces you selected to be bridged collapse into a virtual bridge interface named br0, br1, br2, and so on, and they disappear from the Bridge Selection list.

4. Click the triangular opener next to Set IP Details, if necessary, to view the server's network interfaces, and then select the br0 interface.



5. Select Boot Protocol > Static.

   NOTE: *Automatic IP configuration is not recommended for the EditShare server, since editors need to access the EditShare by its IP address. Setting a static IP address ensures that the IP address does not change unexpectedly.*

6. Type the IP Address and netmask addresses as appropriate for the network you are configuring. Type a gateway address and/or DNS address only on one configured EditShare interface, and only if appropriate.

   NOTE: *Make sure no two configured interfaces in a given server (individual interfaces, bridges, and bonds) have the same IP address or IP addresses on the same subnet.*

7. Set the Frame Size to be used for your network. (All the Ethernet ports on your server must use the same frame size.) EditShare recommends 9000-byte

jumbo frames for any installation that can support it, but 1500-byte frames are standard and work with all networking hardware and software.

8. Click Save.
9. (Option) For specialized network needs, repeat this process to create more than one network bridge (br1, br2, and so on).
10. (Option) To remove a bridge, click Remove, then click Yes in the confirmation dialog box.

About Ethernet Bonding

Bonding lets you aggregate the bandwidth of two or more physical connections of the same speed between the EditShare Server and switch so they behavior as a single virtual connection. Bonding increases the amount of data that can flow back and forth between an EditShare Server and a group of workstations, because the data can travel on any physical connection between the server and the switch. With bonding, a given server can pump out more data to more workstations, because the pipe from the server to the switch is bigger. Bonding does this by using load balancing to split the traffic between the multiple connections of a server and switch.

Bonding also gives you failover. If one of the physical connections fails, all the traffic can flow over the remaining intact connections.

Bonding does not increase the amount of data that can travel between a single server and a single workstation. When a workstation and server establish a connection or session, a formula automatically chooses which physical pathways carry the data between the workstation and the server. For a given session between the workstation and the server, only one physical pathway carries transmitted data, and only one physical connection carries received data. The pathways for transmitted and received data can be different. However, you will never see transmitted data traveling between a server and workstation on more than one pathway at the same time, and likewise, you will never see received data traveling between a server and a workstation on more than one pathway at the same time. The only time transmitted (or received) data travels on a second pathway between a given server and a given workstation is when the first pathway fails, in which case the data moves to an alternate pathway.

You can choose from three types of bond modes. See the following section.

Selecting a Bond Mode

The major factors that distinguish between Bond Mode 2, Mode 4, and Mode 6 are the following:

- Mode 2 is generally referred to as Static Link Aggregation. It requires setting up a switch for Static Link Aggregation. You designate specific ports on the switch as a static trunk and those are the ports you connect to the bonded ports on the server. While Mode 2 is somewhat less flexible than Mode 4, EditShare has seen much better performance with Mode 2 than with Mode 4 when one of the links goes down.
- Mode 4 is generally referred to as Dynamic Link Aggregation or LACP. It requires setting up a switch for Dynamic Link Aggregation or LACP. You designate specific ports on the switch as LACP ports and those are the ports you connect to the bonded ports on the server. Mode 4 performance is very dependent on switch behavior. In EditShare's testing of Mode 4, even with some very expensive switches we have observed that you get dropped frames on capture or playback when you disconnect one of the physical pathways between a server and switch. For this reason, EditShare recommends using Mode 2 or Mode 6 over Mode 4.
- Mode 6 is a type of bonding that is unique to Linux. Mode 6 does not require any configuration on the switch. The entire job of balancing traffic between server and switch is managed by the Linux operating system. The switch doesn't even know it's talking to a bonded connection. EditShare has configured Mode 6 to balance both transmit and receive traffic. While Mode 6 uses a small amount of Server CPU power to conduct its management, testing at EditShare has revealed that its performance is comparable to that of Mode 2, with the benefit that you don't have to configure anything on the switch.

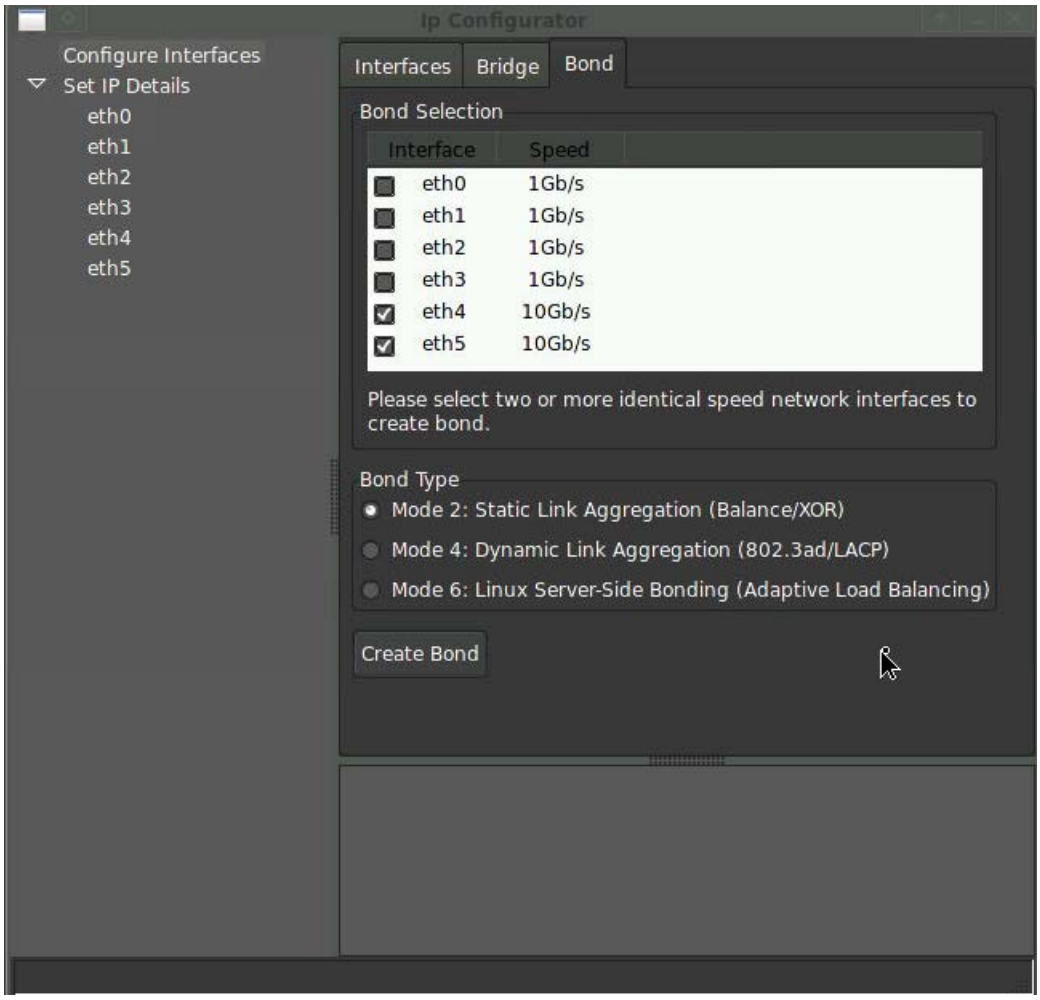
Creating an Ethernet Bond

To create an Ethernet bond, do the following.

TASK

1. Open the EditShare Control Panel and double-click Network Config.
   The IP Configurator opens.
2. Click the Bond tab.

3. Select the identical-speed interfaces you want to bond.



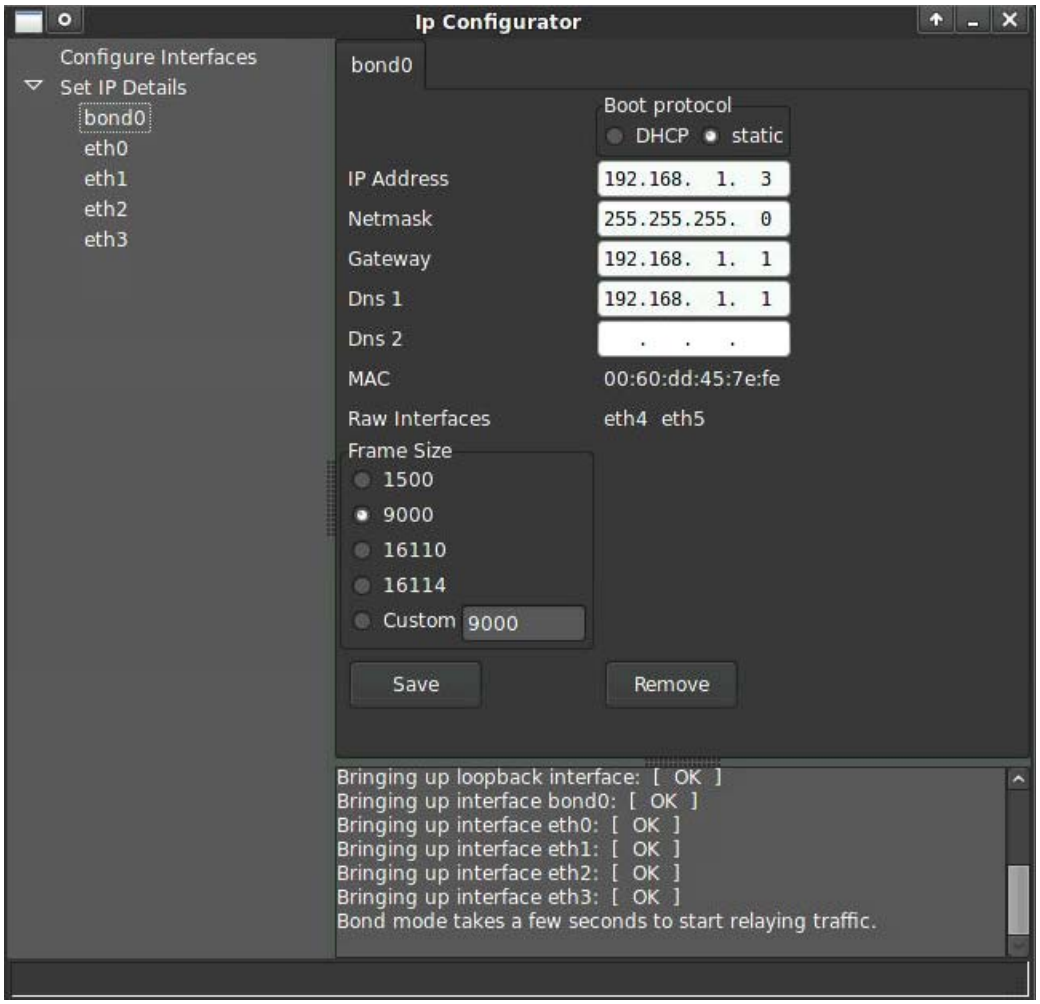
4. Select a bond type, according to the following criteria as well as the descriptions in the preceding section.

Bond Type	Description	Requires Switch Configuration	Balances Load	Provides Failover
Mode 2: Static-Link Aggregation (Balanced XOR)	Requires setting up a static trunk on your switch; consistently higher performance in failover.	Yes	Yes	Yes
Mode 4: Dynamic-Link aggregation (802.3ad/LACP)	Can be easier to configure on your switch but performance, especially in failover, can vary.	Yes	Yes	Yes
Mode 6: Linux Server-Side Bonding (Adaptive Load Balancing)	Consumes EditShare CPU resources, but performs well and requires no switch configuration.	No	Yes	Yes

5. Click Create Bond.

   The interfaces you selected to be bonded collapse into a virtual bond interface named bond0, bond1, bond2, and so on, and they disappear from the Bond Selection list.

6. Click the triangular opener next to Set IP Details, if necessary, to view the server's network interfaces, and then select the bond0 interface.



7. Select Boot Protocol > Static.

   NOTE: *Automatic IP configuration is not recommended for the EditShare server, since editors need to access the EditShare by its IP address. Setting a static IP address ensures that the IP address does not change unexpectedly.*

8. Type the IP Address and netmask addresses as appropriate for the network you are configuring. Type a gateway address and/or DNS address only on one configured EditShare interface, and only if appropriate.

   NOTE: *Make sure no two configured interfaces in a given server (individual interfaces, bridges, and bonds) have the same IP address or IP addresses on the same subnet.*

9. Set the Frame Size to be used for your network. (All the Ethernet ports on your server must use the same frame size.) EditShare recommends 9000-byte jumbo frames for any installation that can support it, but 1500-byte frames are standard and work with all networking hardware and software.
10. Click Save.
11. Complete any Ethernet switch configuration if you selected Mode 2 or Mode 4.
12. (Option) To remove a bond, click Remove, then click Yes in the confirmation dialog box.

New in Flow Version 2.1.3.0

Flow v2.1.3.0 includes the following:

- You can now configure the default color and text of markers.
- Flow SDI Ingest now lets you capture and preserve VANC/Ancillary data (which commonly includes CEA-608 and CEA-708 closed caption data) in the following circumstances:
  - When your source is 1080i 59.94 HD-SDI with embedded VANC data
  - When you capture to interlaced DNxHD codecs

  If the HD-SDI source contains embedded VANC data, a D1 button is available to the right of the Audio Channels in the Metadata tab.

  Click the D1 button to record the VANC data stream. The button text turns green and the VANC data is transformed into an Avid D-track MXF file according to the SMPTE 436M specification.

After ingesting, in Flow Browse you see the CC icon on the clip's thumbnail. When you drag and drop the clip into Avid, it creates audio, video, and a data track as appropriate.

- In Flow, you can now File Ingest simultaneously to two HD codecs from the same source file.
- Flow now supports scanning and file ingest of QuickTime wrapped DNxHD.

Setting up Avid-Style on a Mac System

Beginning with this version, the procedure for enabling Avid-Style Media Spaces on a Mac has changed. You no longer need to install the Application Enhancer. If you previously installed Application Enhancer along with an earlier version of EditShare Connect, you must now uninstall Application Enhancer.

To prepare to use Avid-Style Media Spaces on a Mac system, you need to make sure your Avid application is not running, and then you select the Avid-Style option.

NOTE: *If you had previously used the Application Enhancer, you must now uninstall it. The Application Enhancer will not work with the new EditShare Connect and server software.*

Do the following.

TASK

1. Uninstall the Application Enhancer by doing the following:

   NOTE: *If you had not configured Avid-Style Media Spaces in a version prior to this one, drag the EditShare Connect application from the mounted DMG installer to your Applications folder, and then skip to Step 2.*

   a Double-click the X icon in the EditShare Connect DMG provided with this version of EditShare. The uninstaller asks if you use Application Enhancer for something other than EditShare Connect.

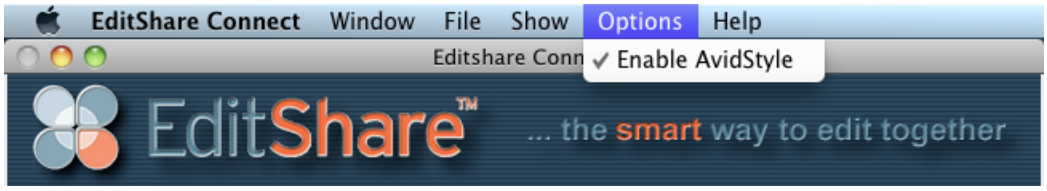
   b If you use Application Enhancer for something other than EditShare Connect, click Yes to keep the Application Enhancer on your computer;

only the files used for EditShare Connect are uninstalled. Click No to remove it completely.

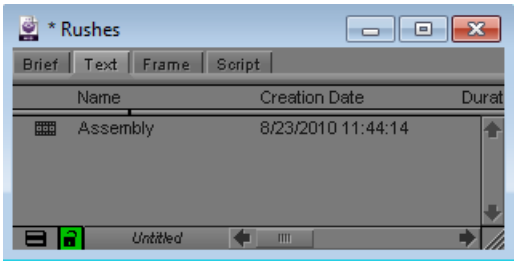
c When the uninstaller finishes, drag the new EditShare Connect application to your Applications folder.

d Restart your Mac.

2. Make sure your Avid application is not running.
3. Start EditShare Connect.
4. Select Options > Enable AvidStyle.



5. Start Avid and create a new project in an Avid-Style Media Space.
6. Open a new bin and make sure the green Lock icon displays.



You are ready to use Avid-Style Media Spaces on your Mac.

Fixed in Version 6.1.3.0

The following limitations were fixed:

- "EditShare Storage Issues" on page 84
- "Ark Issues" on page 84
- "Flow Issues" on page 85

EditShare Storage Issues

- You might have seen an erroneous message about “No Internet Connection Could be Found” when you tried to update your EditShare software. This has been fixed.
- The Volume Manager tool might not have displayed changes to Logical Volumes when you removed users or changed the "write user," even after those changes took effect on the server. This has been fixed.

Ark Issues

- If your Ark job failed to complete and was still running, Flow might have thought the job was still running. You can now force these jobs to be removed by clicking the “-” icon in the Flow Browse Ark tab. A confirmation dialog box opens asking if you are sure. When you click Yes, the job is removed from Flow.
- Ark Disk now correctly restores ownership of files in AvidMXF Media Spaces.
- Ark Assistant now properly recognizes if a new Ark Tape server can not detect a tape library.
- Ark tape backup speed has improved from previous versions.
- Ark Disk now correctly restores ownership of files in AvidMXF Media Spaces.
- A new tape pool might not have displayed in the list of tape pools after you added one. This has been fixed.
- Ark Tape now properly detects write-protected media and warns the user.
- If you tried to run an Ark backup where there wasn’t enough free space or when a server in an ESA group was missing or broken, the job might have looked like it was running but in fact did not run. You are now notified of the problem.
- You might have had to restart your Ark system several times before the Ark Client became available. This has been fixed.
- If your Ark Disk contained more than 32,000 job instances (that is, jobs run per Media Spaces), all your Ark Disk jobs might have failed without an explanation. For example, if you backed up 100 Media Spaces daily for 320 days, jobs run after that might have failed. Your jobs no longer fail for this reason.

- In Ark, if you try to back up a Media Space that no longer exists, the backup now fails immediately (as it should).
- When you added an Ark Tape in the Ark Assistant, it might have taken an unacceptably long time to complete setup. This has been fixed.

Flow Issues

- Flow now warns you if your Mac computer name is not compatible with an Avid editing application or Avid-Style Media Spaces, for example, if the computer name includes a space or an apostrophe.
- If you changed a Media Space from Managed to Unmanaged, Flow might not have been able to scan it successfully. This has been fixed.

New in Version 6.0.5.15

The following features were new in version 6.0.5.15:

- With Media Composer v5.5.2 and later on OS X, you can now capture and play back uncompressed HD with media stored in EditShare Avid-Style Media Spaces. (You have always been able to do this on a Windows system.)
- Flow includes performance improvements for AVC-Intra and XDCAM ingest.
- Flow includes File Ingest improvements in performance and memory use.

Fixed in Version 6.0.5.15

The following limitations were fixed in version 6.0.5.15:

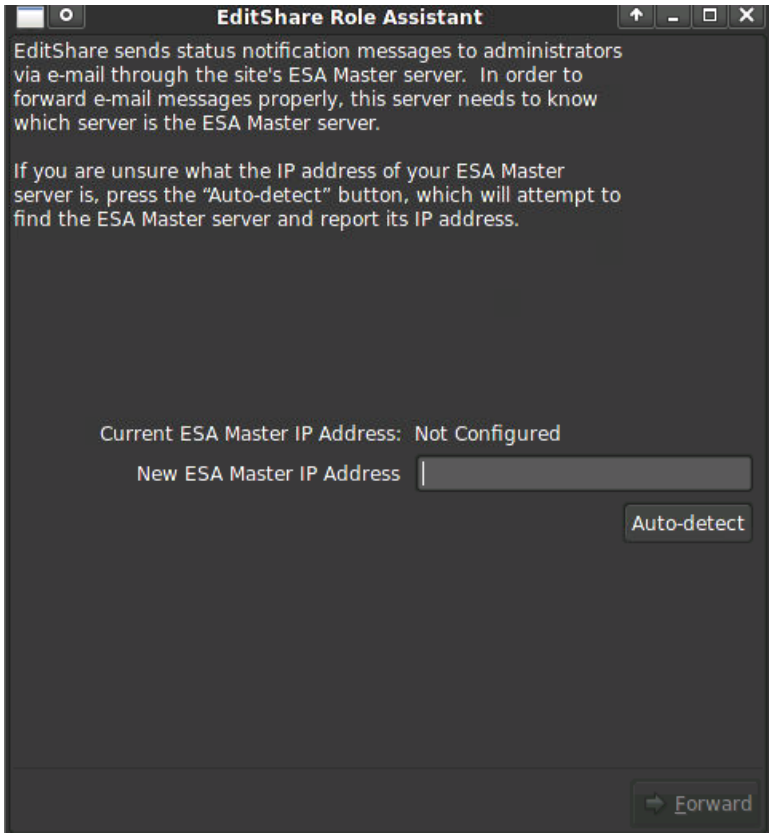
- If you plan to use Edit-While-Capture (EWC) in an Avid-Style Media Space, you need to run the RAID Toolkit first or you might experience problems with your Samba shares. Contact EditShare Technical Support before you start the RAID Toolkit from the Control Panel.
- In some cases, the Battery Backup Events Report section of the Daily Status Report might have reported incorrect warning information about the state of the UPS monitoring system, even if it had been working normally. The condition that caused this is now identified more accurately.

- You might not have been receiving critical email messages from any of your servers besides your EditShare Master server.

  Expansion servers, the Ark Tape server, the Ark Disk server, and the Flow database server all contain RAID cards, and should be relaying messages about any RAID problems through the EditShare Master server. The email settings might not have worked correctly, however. You might not have seen, for example, a message about a failed drive on one of the non-Master servers.

  This is fixed once you upgrade to this version and then run the EditShare Role Assistant on each of your servers, responding to the pertinent question about your ESA Master IP address.

  You can click Auto-detect to have the Role Assistant find the ESA Master server.


EditShare Role Assistant
EditShare sends status notification messages to administrators via e-mail through the site's ESA Master server. In order to forward e-mail messages properly, this server needs to know which server is the ESA Master server.
If you are unsure what the IP address of your ESA Master server is, press the "Auto-detect" button, which will attempt to find the ESA Master server and report its IP address.
Current ESA Master IP Address: Not Configured
New ESA Master IP Address
Auto-detect
Forward

NOTE: *If you click Auto-detect and the ESA Master is not found automatically, a message box opens instructing you to enter the information manually. Type the IP address of your ESA Master and then click Forward.*

CAUTION: ***It is very important that you run the EditShare Role Assistant on each server after you upgrade. If you don't, you risk data loss by missing messages about drive failures.***

After you run the Role Assistant, you should test that the email works correctly by doing the following on each server (expansion servers, the Ark Tape server, the Ark Disk server, and the Flow database server):

a) Double-click RAID Manager on the server desktop.

   The Login dialog box open.

b) Select Administrator, type your Administrator password, and click Login.

c) Click 3DM 2 Settings.

   The Email Notification dialog box opens.

d) Type the information for your ES Master server and click Send Test Message.

e) Make sure the Master server received the email.

For detailed information about setting up your email, see "Configuring Alert Email" in the EditShare Storage Administrator's Guide.

- You might have experienced difficulties using lower bit-rate codecs with Avid-Style Media Spaces on Mac with Media Composer v5.5.2 or v5.5.3. This has been fixed.
- Flow might have had problems scanning material at the Avid DNxHD 36 resolution. This has been fixed.
- If you scheduled a Flow ingest to run across the midnight time boundary, the ingest might have failed to work correctly. This has been fixed.
- If you enabled Flow Edit-While-Capture (EWC) on any Media Space, you might have had issues with the Samba process running out of resources and then disconnecting from the client. This has been fixed.
- You might have experienced scheduled ingests that failed to start. This has been fixed by unmounting unused proxy Media Spaces.
- You might have experienced a problem dragging a clip from an unmounted Media Space into FCP. This has been fixed.
- Flow Scan might have crashed if the connection to the Admin Server was lost during a scheduled job. This has been fixed.
- File-based ingest of AVC-Intra and XDCAM material might have caused the system to run out of memory after a short period of time. The

performance of file-based ingest to these codecs has been greatly improved.

- If you captured material onto a card, imported it into Avid, and then scanned it in Flow, you might have lost the card ID information.

  Flow Scan can now assign metadata embedded in Avid MXF files to Flow custom metadata fields. The nature of MXF files means that the metadata is not always constant. Different applications apply metadata using different names so Flow's retrieval of the data is complex.

  To retrieve the metadata, contact EditShare Customer Support.

New in Version 6.0.5.14

The following features were added in version 6.0.5.14:

- You can now take advantage of Flow PMR support with Avid MXF Media Spaces.

  When you capture Avid media files with Flow, you now have the option of having Flow create and update the Avid Persistent Media Record (PMR) database files so that your Avid applications can see your newly captured files without requiring that an Avid workstation scans them first.

  If you want Flow to make these PMR files, you must add the users "flow" and/or "ingest" to your Media Spaces, and then log into Flow Browse as either the user "flow" or the user "ingest." By default, Flow then makes and modifies the PMR files. The PMR database creation is enabled only for the users "flow" and "ingest." For Avid MXF Media Spaces, Flow, for example, captures into a "1" or "2" folder of the "ingest" or "flow" user, and other users see the media files in the "ingest_1" or "flow_1" folders. Avid workstations do not have to log into EditShare as the "flow" or "ingest" to scan the files so that others can see them.

  It is very important that you do not allow any of your Avid workstations to log into EditShare as the user "flow" or "ingest. If you do that, the Avid application tries to update the PMR database files and create the MDB database files. You run the risk of Flow and your Avid work station both trying to modify these files at the same time, which can lead to corruption of the database files and your bins.

  If you utilize the Flow PMR feature, Flow does not make the MDB database files and you cannot see the clips that Flow captures in the Media Tool. You can, however, drag and drop clips from Flow Browse to your Avid Application, the only way to get newly captured clips into your Avid bins.

- You can now take advantage of Flow's overall support for Avid-Style Media Spaces (previously, Flow could not capture into or scan Avid-Style Media Spaces).

  When you capture to an Avid-Style Media Space, you need to decide which folder you want to capture into. Normally, when an Avid application is connected to a Unity or ISIS storage system, The Avid application captures media files into a folder that corresponds to the computer name on which the Avid software is running. For example, "edit1.1" or "room2.1" or "windows-pc2.1." By default, Flow captures into (and even creates) a folder that corresponds to the name of the workstation on which you are running Flow Browse. If you want users to see the files you are capturing, you need to launch your Avid application on that same workstation so Avid scans the media files and builds or modifies the PMR and MDB database files.

  Alternately, when you are capturing with Flow into an Avid-Style Media Space, you can select any other computername folder by clicking the Folder Icon in the Flow Browse Ingest tool. You can select the computername folder of another Avid workstation and then count on that workstation to scan the files. If that workstation does not yet have a "computername.1" folder in the Media Space where you want Flow to capture files, you can create that folder in Flow Browse and then instruct Flow to capture there.

  If you wish, you can use Flow and Avid-Style Media Spaces without PMR support.

- You can use Flow with Avid-Style Media Spaces as well as PMR support. If you are logged into Flow Browse as the "flow" or "ingest" user, Flow creates or modifies the PMR file in the destination folder you indicate for where you want to capture.

Fixed in Version 6.0.5.14

The following limitations were fixed in version 6.0.5.14:

- Issues with Flow Ingest and Avid media database files have been fixed.

New in Version 6.0.5.13

The following features were added in version 6.0.5.13:

- Performance improvements in several areas.

- You can now access Configuration Import templates and Flow templates (if you have purchased Flow) from the EditShare status web page as well as from the SMB File Exchange area.
- You can now use Avid-Style Media Spaces on Mac systems. See "Setting up Avid-Style on a Mac System" in the *EditShare Editor's Guide*.
- EditShare has added a new method of Project Sharing for Final Cut Pro users. You can now create a lockable Project Space in which all files in a project are read-only. When one user, for example, Allan, takes ownership of a file, it becomes read/write to Allan and is locked to all other users. When Allan is done with that file, he can release it and another user can write to it and lock it to all other users.

  NOTE: *Although EditShare recommends the new lockable projects workflow over the original project-sharing method, you can still create and work with the original FCP Shared Project Spaces.*

  For details on using a lockable project space, see "Lockable Project Spaces" in the *EditShare Editor's Guide*.
- Flow version 2.1. This version includes improvements in scanning, ingest, searching, working with sequences, moving data using drag-and-drop, managing proxies, restoring from an Ark archive, and logging.

  Specific new features and fixed limitations are described in the following table. The *Flow v2.1 Setup and User's Guide* includes complete documentation of the new features.

Flow Area	Flow Version 2.1 New Feature
Ark	• You can now select exactly which backup you want to restore from. For example, if you backed up the same Media Space on several dates, you can select the date of the backup you want to restore from. • You now click a Start button in the Restore Job area to start the restore.
Drag-and-drop	• When you drag-and-drop master clips, subclips, and log entries into Avid or FCP, custom fields are also brought into your editing application. • You can drag-and-drop text from a file into the Flow Browse Search tab. For example, if you have a list of clip names separated by commas, semicolons, or new lines, you can select the list and drag it to the Search tab. • You can export items (lists, sequences, queues, and so on) from Flow Browse by Alt+dragging-and-dropping them into a web browser. This can be useful as a reporting tool. • Within Flow, you can drag-and-drop clips and log entry markers into the Preview window.

Flow Area	Flow Version 2.1 New Feature
Flow Browse	• Flow treats filenames without regard to case and appends an incremented number to the end of an identical name. For example, the following names – soccer, Soccer, and SOCCER – would be registered as soccer, Soccer-1 and SOCCER-2. • You can now preview the hi-res versions of MXF files captured by other users in Avid and Universal Media Spaces. • You can select your version of Final Cut Pro in the Options tab of the Settings dialog box. This ensures that markers and other clip and sequence metadata import into FCP correctly. • The Metadata tab has been redesigned to better accommodate custom fields and comments.
Flow Control	The following terms have been changed in the Users tab of Flow Control: • 'Ingest' is now 'SDI Ingest.' • 'Device Browser' is now 'File-Based Ingest.' • 'Scheduling' is now 'Capture Scheduling.'
Flow Logger	• You can now lock or unlock a template category. A locked category, indicated by a lock icon, persists across clips. An unlocked category is cleared every time you log a new clip. • You now select the capture you want to log rather than the source. • You now have the option of logging a single capture or a ganged capture. • You now select Live Logging or File Logging by right-clicking. • The way a template displays in Logger has been improved to allow for flexible sizing.
Flow Scan	• You can now scan ProRes files. • You can now scan Avid-Style Media Spaces. • 'Keep Files' is now 'Keep Metadata' and 'Delete Files is now 'Delete Metadata.' • Additional file formats and metadata are now supported, including starting timecode. • Scanning is now faster.
Ingest: File	• Additional formats and codecs are now supported. • A progress bar now indicates status as files ingest. This can be useful when you try to ingest many files at once. • If you select FCP as your preferred NLE, you can now see MXF files on a P2 device. • Starting timecode is now read from file-based ingest clips and imported into Flow. • Metadata recorded by cameras can now be read from file-based ingest clips and imported into Flow if you set up a custom field with the same name as the metadata. • Creation date and time is now read from file ingest clips and imported into Flow.
Ingest: Scheduled	When you use CSV import for scheduling an ingest, you can now specify a start time as an offset from current time.
Ingest: SDI	• You can now ingest to AVC-Intra with Avid, FCP, and P2 codecs. • You can now ingest to Avid-Style Media Spaces. • Manual captures from a live source now start and stop on the nearest whole-second boundary. • You can now select or create subfolders that you want to capture to, and you can capture to folders other than the '1' folder in an Avid Media Space.
Logging	You can now drag entries logged by another user into an Avid editing application.

Flow Area	Flow Version 2.1 New Feature
Proxies	• You can enable proxy file caching in the Options tab of the Settings dialog box if you are having problems playing back proxy files for Geevs EWC captures that are in progress. • You can now delete Flow proxy files. You manage several options for proxy file deletion in the Networks tab Proxy tab, including the following: Delete proxy files of offline files Delete proxy files older than *n* days Delete proxy files of archived clips Delete unknown files ***NOTE:*** *The Delete Unknown Files option removes proxy files for clips that are no longer in the Flow database.* Don't delete proxy files in *MediaSpaceName*
Search	• You can now use wildcards (*) in a quick search. • You can create, name, and save more than one search. • You now click a Search button in the Search tab to start a search. • You can now employ the following new Search criteria: Archive date Archive tape Archive type: disk or tape Capture date Marker color
Sequences	• You can add markers to a sequence independent of the clips in the sequence. • Clip markers in a sequence move with their clips when you reorder the clips. If the part of the clip in the sequence no longer contains a marker after reordering, the marker is deleted. • You now receive feedback if your sequence contains mixed file types (which prevents successful export to Avid or FCP). • You now receive feedback if a clip in a sequence is offline. • Master clip markers in sequences now are included when you drag a sequence to an editing application. • When you drag an item into or within a sequence, the new position of the item is indicated with a single thick horizontal line. • A deleted user is listed under the project with (Deleted) after the user's name, for example, Edith (Deleted). You can move a sequence from a deleted user into another user and project for editing or deletion.
Troubleshooting	In the Settings dialog box, you can now enable or disable the generation of log files used for debugging.

Fixed in Version 6.0.5.13

The following was fixed in v6.0.5.13:

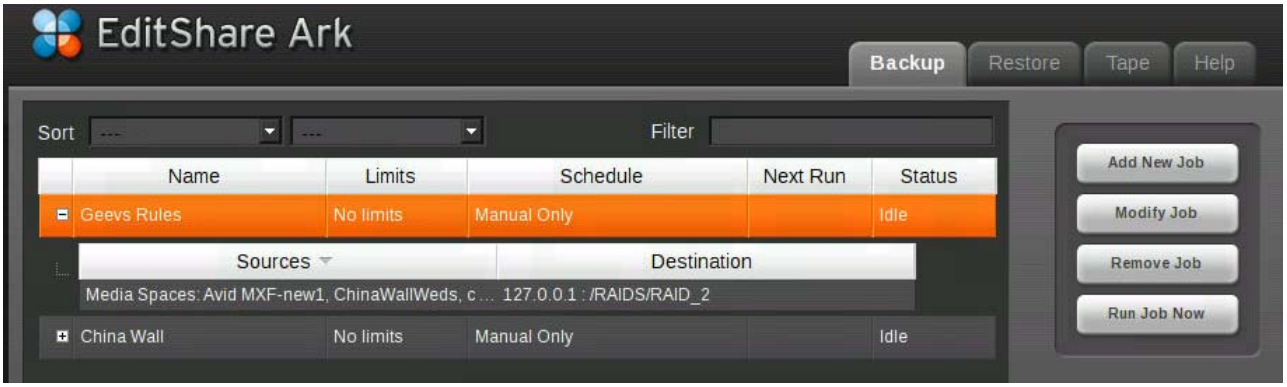
- The EditShare kernel was updated in a previous version. It might not have installed or have been enabled correctly. This has been fixed.
- In Ark, when you restored to a Media Space with an invalid name, the restore failed and did not warn you that the name was invalid, even though it appeared to restore correctly. Now you are warned about invalid Media Space names and the restore does not proceed.
- Your ON-AIR Systems playout server might not have worked correctly with an Unmanaged Media Space after you restarted EditShare services. This has been fixed.
- The Desktop Configuration tool might not have operated correctly in v6.0.5.9. This has been fixed.
- Your Ark system might not have backed up your v6.0.x Shared Project Spaces correctly. This has been fixed.
- If you scanned a Media Space in Flow, then changed the Media Space name and rescanned it, Flow Scan might not have scanned it correctly. This has been fixed.
- If you had more than 1024 Limited Admin Capabilities on your system, EditShare Manager might have stopped operating successfully. This has been fixed.
- This version includes a more robust RAID Toolkit. It now supports more than ten file systems, and properly handles Flow Samba configuration files.
- The Ark User Interface tape listing might have incorrectly displayed some archived elements. This has been fixed.
- In some previous versions, Ark notifications might have accumulated longer than 24 hours, and Flow might have had trouble reading certain notifications. Ark now properly purges notifications older than 24 hours, and Flow now properly handles all notifications.
- You might have seen a “No Appendable Volumes” error message with a subsequent failure to complete a back up job. If an Ark Tape job runs out of tapes with available space and can't complete the job due to the “No appendable Volumes” error, Ark Tape now cancels the job only if it is the database backup job. Otherwise, Ark prompts you to add more tapes to the pool and waits for you to do so. Once you do, Ark continues running the job.
- A compatibility issue with the Quantum Scalar i40 and i80 has been fixed.

New in Version 6.0.5.9

The following features were added in version 6.0.5.9:

- When you back up files to tape in Ark and look at them in Flow Browse, a column now appears containing the barcode that matches the tape the file is stored on. More than one barcode can be displayed.
- Geevs Ingest now includes an option that notifies Ark that new clips have been captured and that the clips should be backed up. You need to create an Ark backup job named Geevs Rules and specify the Media Space you want to back up the Geevs files to.

  NOTE: *The job must be spelled and capitalized exactly as Geevs Rules.*



Backups are automatically made to the destination that you define in the Geevs Rules job.

Fixed in Version 6.0.5.9

The following limitations were fixed:

- Older EditShare Flow logs might have accumulated and caused a performance slowdown. This has been fixed.
- When you pressed the Ark Pause button, the job might not have stopped running. The Pause and Resume functions now work correctly.
- When you ran an Ark job, the message area at the bottom might have displayed 'Idle' even though the job was running. After the job was finished, the message area might have displayed 'Running.' This has been fixed.
- In the Ark Restore tab, if you select Restore to Original Locations and the original Media Space exists, Ark adds `-new#` to the restored Media Space

name. This might have resulted in names that exceeded the 32-character limit for Media Spaces names. In that case, the restore failed and the files were deleted, despite Ark reporting that they were restored.

This has been fixed by automatically truncating the original Media Space name. For example, if your Media Space name was FridayMarchFourthSoccerRushes, the truncated name would be FridayMarchFourthSoccerR-new1. This issue will be fixed in a more elegant way in a release in the near future.

You might not be able to easily recognize the truncated name. If you can't locate your Media Space, search for a truncated version of it.

- If you ran an Ark backup job that specified Media Spaces that you had deleted, the backup might have appeared to be running but in fact the job did not run and it caused the Ark system to hang. Ark now displays a message that the job failed because of missing Media Spaces and then asks you to remove those Spaces from the job and run it again.
- If you used Ark to back up tens or hundreds of thousands of media files in a 24-hour period, old notifications might not have been cleared quickly enough. This might have caused slowdowns in the Ark user interface. This has been fixed.
- When you selected Hourly as the frequency interval for an Ark job, the job might have run every minute instead of every hour. This has been fixed.
- You might have seen frequent error messages in the Ark Log area that it could not connect to the local database (mySQL). This has been fixed.
- After an update, your system might have changed the EditShare sender's email address to editshare@servername.localdomain, which caused problems with external mail servers and internet service providers. This has been fixed. The server email address is now the address you set in EditShare Preferences.
- When you upgraded v5.x servers in an ESA group to v6, after the upgrade the ESA group might not have been properly configured. This has been fixed.
- When you left Maintenance Mode via Limited Admin, it defaulted to deleting forever rather than deleting to trash. This has been fixed with a new version of EditShare Connect. Limited Admin now defaults to deleting to trash; you empty the trash from EditShare Manager. If you use Limited Admin, make sure you obtain the new EditShare Connect client that is included with this version (v6.0.5.9).
- EditShare v6.0.5.8 provided support for running more than one Ark job at the same time. If you ran multiple jobs simultaneously while the system

was busy, or while several people were using it, system performance might have suffered. This depended on how many users your facility has, how many Ark servers, and if you have an integrated Flow-Ark setup.

You can now restrict the bandwidth at which jobs run and select a start and stop time for jobs so the system is not overwhelmed. EditShare recommends using this feature for any facility that has multiple users, multiple Ark servers, and Flow-Ark setups. Your facility might benefit from scheduling jobs to run at night or at times when the system is least busy.

NOTE: *You now set bandwidth limits for each server, not for each job as previously. The Limits option for Ark backup jobs (described in "Adding a Backup Job" in the EditShare Ark Setup and User's Guide) is now replaced by the new Ark Bandwidth option in the EditShare server Control Panel.*

To select the bandwidth and the time of day at which you want Ark jobs to run, see "Setting Ark Bandwidth" in the *EditShare Ark Setup and User's Guide*.

CAUTION: *If you had previously set a bandwidth limit for a job, you must reset it with the new method.*

Setting Ark Bandwidth

To set Ark bandwidth and time of day for a server, do the following.

CAUTION: *If you had previously set a bandwidth limit for a job, you must reset it with the new method.*

TASK

1. On your Ark server, open the Control Panel.

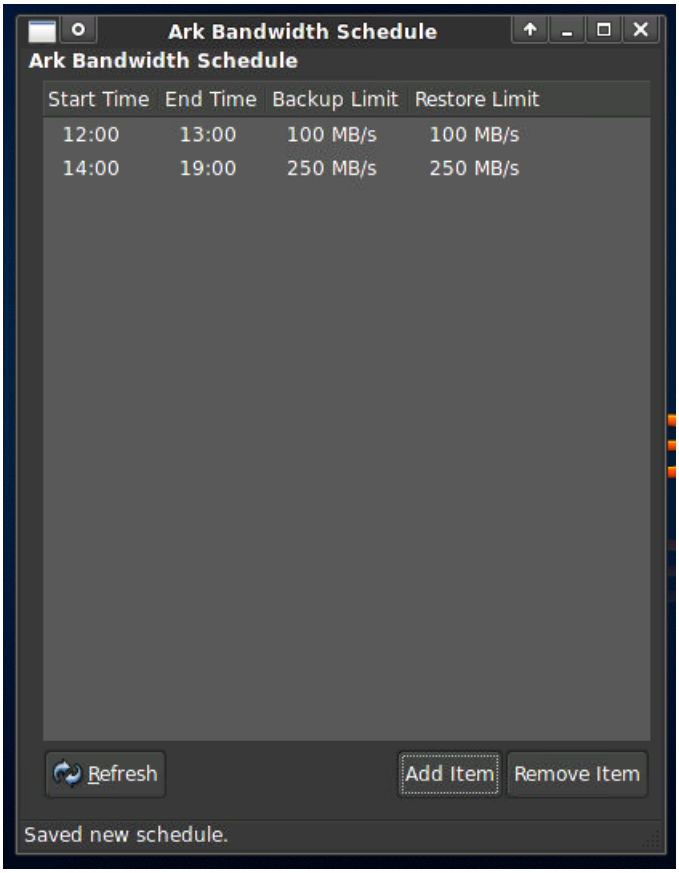
NOTE: *You set bandwidth limits for each server, not for each job as previously.*

2. Double-click the Ark Bandwidth icon.

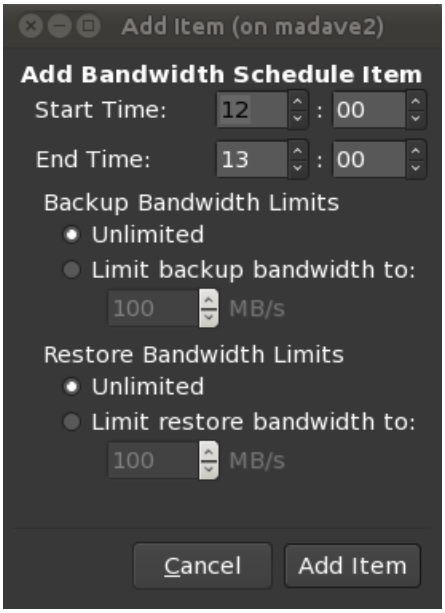
   The Verify Administrator Password dialog box open.

3. Type your Administrator password and click OK.

   The Ark Bandwidth Schedule dialog box opens.



4. Click Add Item.
   The Add Item dialog box opens.



5. Select a Start time and an End time.

   NOTE: *The time selection is in 24-hour (astronomical) time.*

6. In the Backup Bandwidth Limits area, do one of the following:
   - Select Unlimited.
   - Type or select a Backup bandwidth limit, up to 10,000 MB/s.

   NOTE: *The Backup and Restore options are independent. You can select a bandwidth limit for backup jobs but not for restore jobs, or the reverse.*

7. In the Restore Bandwidth Limits area, do one of the following:
   - Select Unlimited.
   - Type or select a Restore bandwidth limit, up to 10,000 MB/s.

8. Click Add Item.

   The dialog box closes and you return to the Ark Bandwidth Schedule dialog box. Your new item appears in the list.

9. When you are finished adding items, close the dialog box.

   Ark runs the scheduled items in the order in which they appear in the Ark Bandwidth Schedule dialog box.

   NOTE: *A current Limitation is as follows: if you create a bandwidth schedule that is wholly contained within a schedule that begins at an earlier time, the contained schedule does not run. Also, if you create overlapping schedules, for example, Schedule B begins before Schedule A ends, Ark does not begin Schedule B until Schedule A finishes. This limitation will be fixed in a future release by not allowing you to create wholly contained or overlapping bandwidth schedules.*

Fixed in Version 6.0.5.8

The following limitations were fixed:

- When you set or changed the hostname in the Role Assistant, you were able to create a hostname with upper-case characters. This might have caused problems when some EditShare services tried to find each other by hostname. The Role Assistant now allows you to create a hostname only with lower-case characters.
- The v2.0.5.4 Flow Browse client on a Mac might have failed to display media clips on XDCAM and P2 cards, which blocked file-based ingest from working. This has been fixed.

  NOTE: *The Flow Browse client version still displays as 2.0.5.4 but it includes the fix.*
- With the introduction of the new kernel in v6.0.5.7, if you have software-striped RAIDS between physical RAID groups, you might have experienced an occasional failure to assemble and mount the software-striped RAIDS. The problem was caused by a change in the timing of events during the boot-up sequence. This has been fixed.
- When you deleted or cancelled an Ark job while it was running, it might have tried to restart every five minutes. This has been fixed.
- A previous version of EditShare Connect might have presented issues unmounting iSCSI targets on Windows 7 systems. This has been fixed with this version of EditShare Connect.

New in Version 6.0.5.7

The following features were added in version 6.0.5.7:

- EditShare Ark now supports simultaneous multiple jobs for backup, archiving, and restoration. See "Ark Multiple Job Queues" on page 100.
- You can now schedule Ark backups at the following additional frequencies: 5 minutes, 10 minutes, 20 minutes, 30 minutes.

  NOTE: *EditShare does not recommend running Ark jobs more than once daily, especially on large Media Spaces. Every time an Ark job runs, the application has to inspect the Media Space to determine what has changed since the last time the job was run. For certain specific workflows, customers have asked to be able to run jobs more frequently. Contact EditShare Technical Support before you schedule Ark jobs to run more than once daily.*
- This version includes an improved RAID Toolkit. The RAID Toolkit is a maintenance tool normally used only under guidance from EditShare

Technical Support. The RAID Toolkit can fix file and directory permissions if they become corrupted. The RAID Toolkit can also inspect a RAID filesystem and create user accounts and Media Spaces based on the information on the filesystem – a feature that can assist in the recovery of a system where the OS drives have been damaged.

The new RAID Toolkit has been updated to support new types of Media Spaces, and to support new permissions and ownership settings that enable compatibility with the latest requirements of editing applications.

- Flow version 2.0.5.4, which includes the following new features:
  - Flow now provides additional support for scanning large Avid MXF files that have been broken into chunks of 2GB or smaller during capture by an Avid editing application or by disk-based or card-based recording devices. Previously Flow saw each chunk as an individual clip. Now all the chunks are seen as one clip.
  - You can now delete an empty project in Flow Browse by selecting the project and clicking the minus (-) button. If the project contains a sequence, a message box opens telling you the project cannot be deleted. To empty a project, select its sequences and drag them into another project.

Ark Multiple Job Queues

EditShare Ark now supports simultaneous multiple jobs for backup, archiving, and restoration. For example, if you have Ark Disk and Ark Tape and you schedule disk and tape jobs to start at the same time, both jobs can now run concurrently. If you have one or more Ark jobs backing up to LTO tapes, you can now back up to two or more tape drives at the same time. This reduces the total time it takes for the Ark jobs to run.

The same efficiency improvement applies to restoration from Ark Tape, or to combinations of backing up and restoring. The new Ark Multiple Job Queue feature is currently subject to one limitation. For a given tape pool, only one job can run at a time. For example, if you have two tape pools – one called “On-Site Backups” and the other called “Off-Site Backups” – jobs to and from each of these pools can run concurrently. However, you cannot run two jobs at the same time to or from the “Off Site Backups” pool. This limitation will be resolved in the next major release of Ark.

Fixed in Version 6.0.5.7

The following limitations were fixed:

- On the Groups tab of EditShare Manager, long lists of users or spaces might have caused the window to display incorrectly. This has been fixed.
- Previously, if you upgraded an EditShare v5 server with iSCSI in the configuration to EditShare v6, new iSCSI Targets and modifying user permissions would not take effect until restarting iSCSI services or restarting the system. This has been fixed.
- An incorrect controller number might have been reported in RAID alarm logs. The correct controller number is now reported.
- You might have experienced your EditShare system clock drifting over time. This has been fixed.
- When you used the Set Time & Date function in the EditShare Control Panel and tried to sync to another editshare server that was running Network Time Protocol (NTP), the system might have said it couldn't sync and then seemed to do so anyway. This has been fixed. Changing the Network Time Protocol option or the time might also have frozen the entire user interface. The clock now only temporarily stops when you change the time.
- Before this release, you might have received a daily email indicating that the packages were up to date. Now you receive an email only when packages are available for updating.
- You might have experienced difficulty activating an Ark server in EditShare v6. Activation is now fully supported.
- A Linux kernel bug might have caused an EditShare server to hang on rare occasions. This has been fixed with a new kernel version.
- Changes to Flow sequences might not have been saved correctly. This has been fixed.
- Flow Browse might not have displayed changes to local files correctly. This has been fixed.
- In a Flow setup with multiple ingest servers, channel assignment might have changed unpredictably and channels might not have been grouped logically. Channels are now grouped correctly and remain consistently assigned.
- Previously, Flow Scan might have had trouble reading some audio file formats, resulting in Scan reading the entire file each time a scan was run on Media Spaces containing such files. This has been fixed.
- You can now prevent Flow Scan from scanning Media Spaces or making proxy files of new media clips when Ark backs up a list of Media Spaces.

Contact EditShare Technical Support for information on using this feature.

New in Version 6.0.5.6

- Flow version 2.0.5.3 is supported in this release.
- You can now select a higher limit on the network speed at which an Ark backup job runs. The Maximum Network Speed text box and the Speed slider now let you select a speed up to 1000 MiB/sec.

- You can now hide the Metadata tab in Flow Browse without having to do it for each clip. To hide the tray, close it by pressing Ctrl+T. To show it again, click the Ingest mode button.

Fixed in Version 6.0.5.6

- Updated Myricom 10 GB ethernet driver that allows you to put Myricom cards in PCIe slots # 4-7 (closest to CPU) on certain EditShare hardware. Previously, the EditShare might hang if you configured a Myricom card in one of these slots.
- When you use Flow and Ark together, if you remove a restore point from Ark, Flow no longer continues to indicate that those clips are archived.
- When you scan clips in Flow that you had archived in Ark, the clips now correctly appear with Archived status.
- An FCP sequence dragged from Flow might have appeared with the wrong audio channel count. This has been fixed.
- The File Ingest job queue now correctly reflects the order the jobs will be processed in.
- Previously, a Geevs server could only communicate with an EditShare server if its hostname was *es-master*. Now, EditShare servers correctly update Netbios information when you change hostnames, so Geevs can communicate with EditShare servers that have different hostnames.

- You might have experienced a “no_frame_boundary” or other Avid errors if you tried to import or capture LongGOP media files larger than 2GB. This has been fixed.

New in Version 6.0.5.4

Version 6.0.5.4 included the following:

- Initial support for EditShare Geevs version 5.0. You can now add Geevs to your system through the EditShare Role Assistant.
- EditShare Flow version 2.0.5.2. See "Flow Version 2.0.5.2" on page 103.

Flow Version 2.0.5.2

Flow v2.0.5.2 included the following new features:

- You can now change the size of the thumbnail display in Flow Logger by pressing Ctrl and the plus-sign key (+) or Ctrl and the minus-sign key (-).
- You can now view clips by dragging them into the Preview window.

Fixed in Version 6.0.5.4

The following EditShare limitations were fixed in v6.0.5.4:

- If your EditShare Storage system included a large number of Media Spaces, you might not have been able to add new Media Spaces or add users to Media Spaces. This has been fixed.
- Users of Avid-Style Media Spaces might have experienced occasional issues with reading bins and Avid media database PMR files. This has been fixed.
- Users of Avid-Style Media Spaces running Avid on Windows 7 might have experienced long delays when beginning video capture. This has been fixed.
- You might have experienced timecode breaks during periods of high CPU use or multiple simultaneous captures. This has been fixed.
- You might not have been able to change the proxy format from the default. This has been fixed.
- Even with a correct dongle ID, Flow Control might have displayed the dongle ID as 0. This has been fixed.

- If you selected a particular order for Flow Logger template items in the Metadata tab of Flow Control, the order might have reverted to alphabetical in the Logger itself. This has been fixed.
- Template item lists in Flow Logger might have displayed the first item in the list rather than the item you selected. This has been fixed.
- If you selected the Thumbnail display in the File Browser, clips might not have displayed. This has been fixed.
- If a clip failed to scan during a Flow Scan job, the entire job might have failed to progress. This has been fixed.
- After you restarted a server, Flow Scan might have failed to start. This has been fixed.
- A sequence created from clips created outside of Flow might not have imported into Avid correctly. This has been fixed.

New in Flow Version 2.0.5

The following features were added in Flow version 2.0.5:

- Flow Ingest
  - Preview, scan, and ingest of QuickTime files with multiple audio tracks.
  - File ingest on more than one channel at the same time (only one ingest per channel).
  - File ingest that proceeds as fast as the network and the CPU can support.
  - Preview files in Windows XP.
  - Ingest and preview files larger than 2 GB.
  - Get clipname from device.
- Flow Browse
  - An NLE tab and an Options tab in the Settings dialog box that let you select several options. See "Selecting Flow Browse Options."
  - Support for dragging and dropping clips from Flow Browse into Lightworks. See the *EditShare Lightworks User's Guide*.

    NOTE: *At this time you cannot drag and drop subclips or sequences into Lightworks.*

  - You can now work with Avid sequences that include more than two channels of audio and that have mixed audio channels.

Fixed in Version 6.0.5.3

The following limitations were fixed:

- If you have Ark at your site, your EditShare Storage system might have become unresponsive because too many Ark log notifications were being retained. This has been fixed.
- After updating to v6.0.5.1, you might not have been able to connect to AFP shares. This has been fixed.

Fixed in Version 6.0.5.1

The following limitations were fixed:

- With Avid-Style sharing, if you opened an Avid bin that held content, the bin might have appeared empty. This has been fixed.
- EditShare now supports Avid Pro Tools on Windows systems without iSCSI.
- You might have had trouble updating your email preferences. This has been fixed.
- You might have had problems importing jpeg files into an Avid editing application and then creating media on an EditShare Media Space. This has been fixed.
- An unallocated tape is now removed from the Available list in Ark if the tape is not in the autoloader.
- You might not have been able to write to your SMB File Exchange area. This has been fixed.
- You might have been receiving spurious “has not completed a verification in more than 7 days” messages about your RAID controllers. You are now correctly notified of verifications.
- You might not have been receiving email status messages from your expansion server. This has been fixed.

Fixed in Version 6.0.5.0

The following limitations were fixed:

- Previous versions might have sent spurious emails to the EditShare Administrator email account. This has been fixed.
- Remote help might have failed to connect if you initiated it from a local VGA connection instead of from VNC. This has been fixed.
- RAIDs might not have mounted after a cold boot. This has been fixed.
- You might have seen screen artifacts the first time you started the Ark application. This has been fixed.
- Several selection options might have been difficult to distinguish in the v6.0 user interface. This has been fixed.
- You might have experienced connectivity problems with Switch mode in the IP Configurator. This has been fixed.
- You might have had trouble emptying the trash in Managed, Unmanaged or Avid Style Media Spaces. This has been fixed.

Upgrading from Version 5.5.22-23

This software update applies only to systems already running EditShare v6.0.0 or later. EditShare also offers a paid upgrade path from v5.5.23 to Editshare 6 (from v5.5.22 if the system is enabled for 64-bit hardware), however, which includes a new EditShare operating system as well as many other features and improvements. Your data is preserved through the v5-to-v6 update process.

The upgrade procedure from a v5.5.23 (or 5.5.22) system is described in the *EditShare Version 5.5.23 to Version 6 Upgrade Guide*, which you receive when you purchase the upgrade. Contact your dealer or EditShare Sales for pricing and availability.

Consider the following about the v6.0.5.x release:

- The EditShare Role Assistant includes the ESA Assistant and the Ark Assistant (if you purchased the Ark option). In most cases, you need to run the Role Assistant to make sure that your components are configured correctly.
- With the introduction of EditShare 6, the file format and extension has changed for dongle updates and downloaded offline updates. Update files now end in .es6, for example, `ES6Update_101234_flowV2.es6`. You

cannot use a .es6 updater with a v5.5.x system, and you cannot use a .esu updater with a v6.0.x.x system.

Configuring Your System with the EditShare Role Assistant

The EditShare Role Assistant makes sure your system is configured correctly. In general, you must run the Role Assistant as part of a first-time setup. The only exception is if you have a standalone EditShare server with no ESA groups and no Flow or Ark applications.

As of v6, if you want to configure an ESA group, you run the ESA Assistant from the Role Assistant, and if you want to configure an Ark system, you can run the Ark Assistant from the Role Assistant or from the Control Panel.

If you add Flow roles to a server using the Role Assistant, required Flow packages are downloaded automatically if you have Internet access on that server. If you don't, you need to download the offline updater with Flow and install it on the server, and then rerun the Role Assistant to add the appropriate Flow roles.

If you were already running Flow under version 6.0.x, you must reboot and then reboot again after the Role Assistant completes. If you do not run the Role Assistant after updating, you might not get the Flow clients installed in the correct place on the ESA master.

For additional details abut setting up your system, see "Using the EditShare Role Assistant" in the *EditShare Version 6.0 Administrator's Guide*.

Limitations

You might experience the following limitations in this version:

- "Avid-Style Limitations" on page 108
- "General Limitations" on page 109
- "Flow Limitations" on page 111
- "Ark Limitations" on page 112

Avid-Style Limitations

- If you right-click a sequence or clip in an Avid bin and try to export an AAF file, the export might fail if the media associated with the Avid sequence or clip is located in an Avid-Style Media Space. An AECIFS_X message box appears describing an unimplemented function error.

  Workaround: If this error occurs, close Avid. Unmount all Avid Style spaces where you have media. Start Avid again and export the AAF. The export now succeeds.

  If the media and project are located in the same Avid-Style Media Space, you need to create a new local project, copy the bin with the sequence or clip you want to export, close Avid, unmount all Avid-Style Media Spaces, then start Avid again. Now you can export the sequence as an AAF successfully.

- EditShare Avid-Style Media Spaces are compatible with both OS X and Windows versions of Avid Media Composer from versions 4.x through 5.0.x

  EditShare Avid-Style Media Spaces are not compatible with Avid Media Composer v5.5.1 for OS X. You cannot create projects or capture media into EditShare Avid-Style Media Spaces if you run this version of Media Composer. The same limitation applies to Media Composer v5.5.1 on OS X when you store files on Avid's own Ethernet-attached Unity systems. Media Composer version 5.5.1 for Windows was not affected by this issue.

  The OS X incompatibility issue was largely fixed with Avid's release of Media Composer version 5.5.2. However, in all versions of Media Composer 5.5.2 – whether for Windows or OS X – XDCAM HD and XDCAM-EX media files do not play back correctly when stored in EditShare Avid-Style Media Spaces or when stored on Avid's own Ethernet-attached Unity systems. When you press the Play button, you get errors almost immediately.

  The problem with playing back XDCAM media files was resolved with the release of Avid Media Composer 5.5.3. EditShare recommends that if you want to store your media files in EditShare Avid-Style Media Spaces, you should upgrade to Avid Media Composer 5.5.3 or later, or use an Avid version from 5.0.x or earlier.

- Avid-Style Media Spaces were incompatible with OS X Lion (10.7) until EditShare v6.1.3.3. If you're upgrading from EditShare v6.1.3.2 or earlier, see "New in Version 6.1.3.3" on page 51 and "EditShare and Avid Media Composer Version 6.x" on page 16.

General Limitations

- The new Bonding option in the Network Configurator (see "Configuring EditShare Network Settings" on page 72) might have resulted in poor bonding performance because of an error in the way bonds were configured prior to v6.1.3.2.

  Workaround: If you created a bond, you must contact EditShare Technical Support before you upgrade to v6.1.3.2. After the update, you need to remove any existing bonds and then remake them. A manual step is required to remake the bond after you remove it, because the raw interfaces are missing after you remove the bond. EditShare Technical Support will assist you with the manual step. V6.1.32 fixes this issue, and in the future you can make and remove bonds without problems.

- (Windows only) You can install v6.1.3.2 EditShare Connect over your existing EditShare Connect (v6.1.3.1 or earlier). If you need to reinstall v6.1.3.2 EditShare Connect over itself, however, you must first uninstall it (click Start, select Programs > EditShare > Uninstall EditShare Connect, and follow the prompts), and then reinstall. This is necessary because EditShare Connect is currently unable to replace certain files are that are in use. EditShare expects to resolve this issue in a future EditShare Connect version.

  Note: After you reinstall, make sure you select Enable Avid Launcher and add the Avid application again as described in "Installing and Configuring the New EditShare Connect for Avid-Style" on page 55.

- If you try to take an existing ESA Group and replace the es-master machine, which was likely to be the oldest machine, with a new es-master machine, your usernames might not transfer correctly.

  ***NOTE:** This is true even if your ESA group contains only one master server.*

  Workaround: Do the following:

  a) Add the new, soon-to-become es-master server to the current ESA Group as an expansion server using the ESA Assistant in the Role Assistant. All usernames and UIDs sync over to the new server.

  b) Remove all expansion servers from the current ESA group via the ESA Assistant in the Role Assistant on the current es-master, thus making each server an independent es-master again (including the server you added in Step a).

  c) Add all the old servers (including the old master server if you want) as expansion servers to the new master server.

NOTE: *If you need to move Project Spaces from the old es-master machine to the new one, contact EditShare Technical Support for assistance.*

- In the RAID Status Report section of your Daily Status Report, you might see spurious "has not completed a verification in more than 7 days" messages about your RAID controllers. If the RAID Events Report section reports (for every controller on every server) that the RAID verification was completed within the last 7 days, your RAID is fine.
- On EditShare v6, servers automatically attempt to download available updates. If updates are being skipped, the updater files can accumulate until they fill up the boot partition, leading to other problems. If you have skipped updates or otherwise feel you may be affected by this issue, contact support@editshare.com for assistance.
- If you configured the Avid Launcher in EditShare Connect, before you upgrade your Avid software, you must remove your Avid application from the EditShare Connect Avid Management tab by selecting it and then clicking the Remove Avid Application button.
- If you use AFP on OS X 10.6.x, and you capture clips that exceed 2 GB in size with DV25, DV50, or DVCPro HD codecs, you might lose tape name and timecode information.

  Workaround: Use DAVE if you plan to capture large clips with DV25, DV50, or DVCPro HD codecs. All other codecs are unaffected by this issue and should be safe for you to use to capture and edit with AFP.
- When you connect to the RAID Manager on a remote server, you might see a This Connection is Untrusted message box. This does not indicate an actual error.

  Workaround: Click the “I Understand the Risks” button and then click the “Add Exception” button. An Add Security Exception dialog box opens. Click the “Confirm Security Exception” button.
- If you start your Avid application by double-clicking the desktop icon, then look at a bin from an Avid-Style Media Space, you might not see the locking icons that indicate that Avid-Style sharing is working.

  Workaround: Close the Avid application, and click the Launch Avid Application button in EditShare Connect to restart the Avid application.
- If you try to use the Avid Launcher from EditShare Connect on a Windows Vista 32-bit system, the Avid editing application might not start successfully.
- Each workstation that connects to your EditShare server must have a unique name. EditShare recommends that the boot drive on each

workstation also have a unique name. See “Naming Workstations” and “Naming Boot Drives” in the *EditShare Administrator’s Guide*.

- If you create a user on an EditShare server and then add that server to an ESA group as an expansion server, the user is not available in the new ESA group.

  Workaround: Create the ESA group before you create users on any of the intended expansion servers.

- You cannot use Traditional Media Spaces under AFP in this version at this time.

- In Avid MXF and Universal Media Spaces with many users, if you try to assign all users read-only status at once, you might experience system slowdown.

- You might experience difficulty if you try to add users with names longer than 16 characters.

  Workaround: Restrict usernames to 16 characters or fewer.

- In the EditShare Connect Project browser on a Mac, if you have a Finder window open while you are moving bins or folders or refreshing the browser, you might hear the Mac system noise for deleting a folder even though you aren’t deleting one. This is because EditShare is creating and then deleting a folder to refresh the Finder. You can ignore the noise.

- AFP is not supported in this version of EditShare Connect on Macintosh OS X version 10.4.x.

  NOTE: *You can use AFP on OS X v10.4.x if you are running EditShare v5.1 and earlier.*

Flow Limitations

- For file-based ingest, if you select one of the rewrap codecs (Avidwrap or FCPwrap), and then ingest only part of a file from an XDCAM-EX card, the first two frames might be corrupted. For example, if you trim the IN point on a clip (that is, if you don't start a file-ingest on the first frame of video from the original clip), the beginning of the resulting clip that gets transferred to the EditShare Storage Server is slightly corrupted with some blockiness in the first two frames. To compensate, Flow takes a few extra frames to ensure that the first frame you actually wanted to ingest is good.

The two blocky frames come from just slightly outside the place where you marked the IN point.

Workaround: When you are editing, do not include the blocky frames in your sequence.

Ark Limitations

- If you change the tape library connected to your Ark Tape server, or if you change the LTO drives in the library, you must reboot the Ark Tape server so that the new hardware gets detected properly.
- If you activated your Ark server, you might not have been able to deactivate it.

  Workaround:

  a) On your Ark server, open a Konsole window.

  b) Type `rm /var/lib/editshare/ark/activation.json` and press Enter.

  c) Open the Control Panel, and double-click Role Assistant.

  d) Select roles for your Ark system, being careful not to select EditShare Storage Server or EditShare Expansion Server.
- When you run the Ark Assistant to configure your Ark servers (Ark Tape, Ark Disk, Ark Master, ESA Master), it is very important that only one Ethernet interface on each server is attached to your network.

  If you have more than one interface connected to your network when you run Ark Assistant, Ark Assistant might choose the wrong interface for Ark communications, potentially causing connection and data throughput problems when you actually try to use Ark.

  Workaround: If you normally have multiple interfaces connected to your network, before you start Ark Assistant, unplug all of the interfaces except the one interface you will use for Ark data transfers and Ark communication.

  NOTE: *After you configure Ark with the Ark Assistant, reattach any other Ethernet interface cables.*
- Stopping a Restore job sometimes does not actually stop it. If it is critical that you stop a Restore job, restart the server.
- **CAUTION:** ***In Ark Assistant, select First-time Setup only for configuring new Ark systems. First-time Setup removes all backed-up files.***

- Ark activation is not supported in version 6.0.5.6.
- In the Ark Assistant Configuration area, you might not see a server you want to select.

  Workaround: In the list of servers, select the <not listed> option, and then type the IP address of the server you want.
- In an Ark backup job, if you create an item including a Media Space from a Master server and another Media Space from an expansion chassis, the backup does not run and an error message appears in the Log window.

  Workaround: Make sure all Media Spaces in a single backup item are from the same server. Create a separate item for Media Spaces you want to back up from an expansion chassis.
- For Ark Tape, only Media Space users included in the most recent backup are included in the Restore.

  For Ark Disk, all users who have been part of a Media Space during any previous backup are included in the restore, even if they have now been removed from the Media Space or from EditShare Manager. Users added to a Media Space after the most recent backup job has run are not included in the restore, however.

Technical Support Information

For assistance beyond this ReadMe and that provided in your EditShare documentation, contact EditShare Technical Support at support@editshare.com.

You can also call one of the following telephone numbers:

- EditShare Americas: 617-782-0479
- EditShare Europe, Middle East & Africa: 44 (0) 20 7183 2255
- EditShare Asia-Pacific: 61 7 3112 5220

EditShare strongly recommends that you purchase a support agreement; if you do not have a support agreement, a per-incident rate is available for problems not covered by warranty.

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